

# Syllabus - Math 1113 – Math for General Education Fall 2011

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Office Hours: By Appointment Only

**Course Description:** This course surveys mathematical topics that are not intended as a preparation or substitute for College Algebra. Topics include sets, logic, probability, statistics, matrices, geometry, numeration systems, number systems, and the real number system.

**Prerequisites:** Three units of high school mathematics or intermediate algebra.

**Text:** *Mathematical Excursions, 2<sup>nd</sup> ed. Aufmann et al. Houghton Mifflin, Boston 2004.*

## Course Objectives:

1. To help students to develop an appreciation for the scope and impact of Mathematics as a human endeavor and as an important influence in their lives.
2. To involve students in a variety of mathematical topics as they apply to understanding their financial, cultural, technological, and physical surroundings.
3. To improve students' ability to use mathematical tools in exploring and understanding their world.

**Student Objectives:** Upon completion of this course the student should be able to:

1. Identify the sets of integer, rational, and real numbers and perform basic calculations with them.
2. Assess probabilities and risks.
3. Interpret basic statistical statements.
4. Use a calculator and/or spreadsheet program to perform basic financial calculations pertinent to informed consumer participation in local, national, and foreign economies.
5. Recognize and interpret common phenomena as modeled by linear, quadratic, logarithmic, or exponential functions.
6. Recognize that mathematics has a wider scope extending beyond arithmetic calculations and solution of algebraic equations.

**Evaluation:** There will be an in-class quiz every week and 3 in-class exams. Suggested problems from the text will be issued after every class period. The quizzes will consist of 3-5 questions which will be closely related to the suggested homework assignments. There will be absolutely NO MAKEUP QUIZZES. Your two lowest quiz grades will be dropped.

Quizzes	40%
In-Class Exams	30% (3 exams, 10% each)
<b>Final Exam</b>	<b>30%</b>

**Special Accommodations:** The University of Central Oklahoma complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Students with disabilities who need special accommodations must make their requests by contacting Disability Support Services at 974-2549. Students should notify the instructor of special accommodation needs by the end of the first week of classes.