

## Syllabus for MA 106, Trigonometry (Winter 2013)

**Instructor:** Qinghong Zhang

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**Office Hours:** 11:00-1:00 MW, 10:00-12:00 TR, and by appointment.

This course satisfies the Foundation of Natural Sciences/Mathematics requirement.

Students who complete this course should be able to demonstrate a basic understanding of mathematical logic; use mathematics to solve scientific or mathematical problems in college classes; express relationships in the symbolic language of mathematics; and appreciate the role of mathematics in analyzing natural phenomena.

Upon successful completion of this course, a student should be able to:

- define trigonometric functions of acute angles
- solve right triangles
- apply trigonometric functions of real numbers to oblique triangles
- solve trigonometric equations and prove trigonometric identities
- define inverse trigonometric functions and draw their graphs

Evaluation of these learning outcomes will be done through assignments, quizzes, and exams.

**Prerequisite:** A grade of C- or better in MA103 or MA104 or satisfactory score on the Math Placement Exam.

**Textbook:** Trigonometry 9<sup>th</sup> edition by Margaret Lial, John Hornsby, and David Schneider.

### Grading Plan:

Coursework will be weighted as follows:

Quizzes: 20%.

Tests: 45%.

Final Exam: 35%

It is important to take the tests and exam at the scheduled time. Generally, no make-ups will be given.

Grading: 90%—100%, A; 80%—89%, B; 70%-79%, C; 60%-69%, D; 0%-59%, F.

**Disability Services** If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 2001 C. B. Hedcock (227-1700). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.