

MA 106 Trigonometry Winter 2016

Class time: Mon. Wed. 6 pm – 7:15 pm

Place: West 2905

Instructor: Zosia Eppensteiner

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Office: 2234 Jamrich Hall

Office hours: by appointment Mon., Wed. 7:15 - 8pm

This course satisfies the Foundations of Natural Science/Mathematics requirement.

Course Overview and Objective: 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. The course emphasizes the study of trig functions, the operations and identities of these functions and their applications. We will cover most of 7 chapter of the text, focusing on trigonometric functions, identities, equations involving trigonometric functions, solutions of right and oblique triangles.

Text: *Trigonometry, by Lial, Hornsby & Schneider, 9th edition, Pearson, 2009*

Prerequisite: MA104 or MA103 with a passing grade of C- or better or satisfactory score on the Math Placement Test. MA106 is designed to be a terminal math course, students considering taking MA161 should take MA115 instead of this course, as credit cannot be earned for both MA106 and MA115.

Supplies: A graphing calculator or laptop equipped with TI-Interactive/Microsoft Mathematics. Notebook, graph paper, pencil and straight edge will be required.

Student Learning Outcomes: This course is designed to enable students to understand and work comfortably with:

- Trigonometric functions;
- Angles, radian measure, and circular functions;
- Trigonometric identities;
- Inverse trigonometric functions and trigonometric equations.

Tentative exam schedule: week 3: January 27th Exam 1 (chapter 1), week 6: February 17th Exam 2 (chapter 2), week 9: March 9th Exam 3 (chapters 3 and 4), week 12: March 30th Exam 4 (chapter 5), Week 15: April 25th Final Exam (chapters 6 and 7).

Grading: Homework will be assigned for each class, some homework will be collected. 5 unannounced quizzes will be given. There will be five tests and generally, no make-ups will be given. Tests are 100 pts each,

homework 10 pts each and quiz 10 pts each, total for the course is 600 pts. The final is not cumulative. 90%—100% is an A. 80%—89% is a B, etc.

Course policies and tips: Students are expected to attend all the classes.

Attendance will be taken at the beginning of the class. Excessive absence will influence your grade. Most importantly in order to succeed in this course you have to be present, focused and ready to devote time and effort into doing the math, not just observing and listening to the lecture. Take notes, ask questions and keep up with your homework. Please do not use your cell phones in class and be respectful of your fellow students. Materials/handouts covered in class as well as homework assignments will be posted on EduCat. Please contact me via email with any questions or concerns.

Disabilities: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office by: coming into the office at 2001 C. B. Hedgcock; calling 227-1700; or e-mailing disserv@nmu.edu. 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.