



MA161 Calculus I

Winter 2009

Syllabus

- ✿ Instructor: Roxin Zhang
- ✿ Textbook: Single Variable Calculus – Early Transcendentals, James Stewart, 6E
- ✿ Meeting Times: MTWRF 10 – 10:50 am, WS 3803
- ✿ Prerequisite: MA115 (Pre Calculus) or recommendation by NMU Math Placement
- ✿ Software: Use of Maple is required for some projects
- ✿ Instructor's Office: NSF 3013
- ✿ Office Hours: MWR 11-11:50 am, 1-1:30 pm, and other times by appointments.

Contents

- ✿ This is a five-credit class in that there will be a great amount of materials covered. Please arrange your schedules so that you have sufficient time to read the text and practice the assignments.
- ✿ List of Chapters:
 - Functions and Models
 - Limits and Derivatives
 - Differentiation Rules
 - Applications of Differentiation
 - Integrals
 - Applications of Integration

Homework and Tests

- ✿ Exercise problems will be assigned after each lecture. Students are expected to do the homework and participate in the discussions during the following lectures.
- ✿ There are three types of tests:
 - Quizzes - quizzes (mostly one hour) will be given roughly every two weeks.
 - Midterm - Tentatively scheduled close to the 7th week.
 - Final exam - A comprehensive exam. Tuesday, April 28, 10 – 11:50am.

Attendance and Grading

- * Attendance will be checked randomly and will be calculated into the grade. Remember that the poor attendance is one of the primary causes of failing a class.
- * Grades are calculated according to the quizzes, the midterm, the final exam and the attendance. The grade of the course is a weighted average with the following weights:
Quizzes 50 %, Midterm 20 %, Final exam 25 %, Attendance 5 %

Grading Convention:

A (95%), A-(90%), B+(85%), B(80%), B-(75%), C+(70%), C(65%), C-(60%), D+(55%) etc.

Liberal Studies

- ✿ 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.