MA 161 CALCULUS I, Fall Semester, 2005
M–T–W–Th–F, 3:00–3:50, West 2901

Instructor: Professor John Kiltinen, Office: NSF 1127
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Prerequisites: For new freshman: a placement test recommendation for Calculus I.
For others: MA 115, or equivalent, wit h a grade of C– or better.

Office Hours: 2:00–2:50 M–W–Th–F.
I am in and out of the office throughout the day and am willing to meet with students who drop in at other times if whatever I am doing can be set aside. To be sure I will be there when you can come, make an appointment.

Course Materials: **Textbook:** SINGLE VARIABLE CALCULUS, EARLY TRANSCENDENTALS, 5th edition, James Stewart, Brooks/Cole Publishing Company, 2003.

Computer and Calculator: We will make use of the TI Interactive software that comes installed on the laptop computers students lease from NMU. A graphing calculator, although it is not required, will be convenient for students if they already have one. The in-class instruction, homework assignments, and tests will require the use of a the TI Interactive software or a graphing calculator.

Content: The course provides an introduction to the theory and applications of differential and integral calculus. It covers Chapters 1 through 5 in the text. There will be an emphasis on visualizing concepts with graphs. To allow for this, we will use graphing software extensively. In addition, there will be an emphasis on writing up results of your investigations. Work together in groups will be a feature of the course.

A daily schedule will be prepared which will indicate approximately what topics will be covered for each session during the semester.

Grading: Course grades will be based on scores of 5 to 8 unannounced quizzes, 3 project reports, 4 hour exams, and a final exam, which will be weighted the same as two hour exams. The two lowest quiz scores will be thrown out, and the remaining quiz scores will together be equivalent of an hour exam. The written project reports will be equivalent to two hour exams. The final grade will be based upon the average of the best 8 of the 9 scores resulting from the quiz average, the 4 hour exams, the doubly weighted project reports, plus the doubly weighted final exam. The grading scale will be absolute: A = 93–100; A– = 90–92; B+ = 8789; B = 83–86; B– = 80–82; C+ = 77–79; C = 73–76; C– = 70–72; D+ = 67–69; D = 63–66; D– = 60–62; and F = 0–59.

Make–up policy: Quizzes cannot be made up. A missed quiz will be a zero, and will have to be one of your throw–away quizzes. Hour exams can be made up for valid reasons of health or family emergency. Prior notification of your missing a test by telephone or e-mail is expected whenever possible.

Attendance policy: Regular attendance at class is expected, and is essential for success in the course.

Liberal Studies: This course can be used to satisfy a portion of your Division III Foundations of Natural Sciences/Mathematics requirements of the Liberal Studies Program. (It does not satisfy the laboratory course part of this requirement, however.) Students who complete a mathematics course of the Liberal Studies Program 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 probability and statistics in analyzing natural phenomena.

Schedule: The daily schedule to be given will be followed reasonably closely. Coverage of topics may vary up to a few days from the dates indicated on the schedule. Test dates, however, will remain fixed. It is expected that students will work the assigned problems. Again, this is essential for success in the course.

Special Needs: 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. Hedgcock (227-1700; TTY 227-1543). 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.