

SYLLABUS FOR MA 161, CALCULUS

Prof. Hal Martin

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Office Hours: 8:30 – 8:50 A.M.; 11:00 – 11:50 A.M., except Tuesday, Friday

Text: *Single Variable Calculus; Early Transcendentals*, by James Stewart, 6th ed.

Course Description: Calculus is the mathematics of change; we will study how one variable changes with respect to another. The *derivative* of a function measures the rate of change of the dependent variable with respect to the independent variable. The inverse operation to the derivative is the *anti-derivative* or *indefinite integral*. The three main features of MA 161 are as follows:

- 1). The abstract study of the operations of the derivative and the integral.
- 2). Methods for computing derivatives and integrals of elementary functions.
- 3). Applications: how to use derivatives and integrals to solve practical problems.

There will be six exams during the course as well as frequent quizzes.

Tentative Exam Schedule, (Fairly definite, but subject to change):

Exam 1, Thursday, 09/04/08, Sections 1.1 – 1.6.

Exam 2, Thursday, 09/25/08, Sections 2.1 – 2.4.

Exam 3, Thursday, 10/09/08, Sections 3.1 – 3.5.

Exam 4, Thursday, 10/23/08, Sections 4.1 – 4.2

Exam 5, Thursday, 11/06/08, Sections 5.1 – 5.4.

Exam 6, Tuesday, 12/02/08, Sections 5.5 – 5.6.

Final Exam, Monday, 12/08/08, 10:00 A.M.

Grading:

The grade on the final exam will be entered as four grades. The average on the quizzes will be entered as two grades. Therefore, there will be a total of twelve exam grades at the end of the course. The lowest two of these twelve grades will be dropped and a numerical average taken of the remaining ten scores. The usual grading scheme will be followed: 93 – 100 is an A; 90 – 92 an A-; 87 – 89 a B+; 83 – 86 a B; 80 – 82 a B-; 77 – 79 a C+; 73 – 76 a C; 70 – 72 a C-; 67 – 69 a D+; 63 – 66 a D; 50 – 62 a D-; less than a 50, an F. This scheme of grading is a minimum guarantee. The grading may be a little more liberal than indicated above.

Laptop Policy: The use of laptops and other electronic devices, except for hand held calculators, will not be permitted during exams. When you are in class, I expect your undivided attention. Therefore, the use of laptops during class periods is not permitted.

Note: 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.

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 by coming into the office at 2001 C.B.Hedgcock, or 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.