SYLLABUS FOR MA 163, CALCULUS 2

Fall Semester, 2006

Prof. Hal Martin
e-mail: hmartin@nmu.edu
Office Number: 3011 New Science Facility (NSF 3011)
Office Phone: 906-227-1591
Office Hours: 8:00 – 8:50 A.M., Monday through Thursday;
11:00 – 11:50 A.M., Monday, Wednesday, Thursday;
And by appointment.

Text: Calculus, 5th edition, by James Stewart

Course Description: The first half of Calculus 2, a continuation of Calculus 1, concentrates on applications of the definite integral, culminating in Chapter 9, a brief introduction to differential equations. The second half of Calculus 2 pertains to two major topics. The first of these, Chapter 10, studies the calculus in the setting of parametric equations and in the setting of polar coordinates. The second topic, Chapter 11, concerns infinite sequences and series. Representing functions by means of infinite series is of fundamental importance in applied mathematics, so important, in fact, that we will devote the final four weeks of the course to the study of Chapter 11.

Course Outline:

8/28 – 8/30.	Review.
8/31.	Section 6.1.
9/5.	Section 6.2.
9/6.	Section 6.3.
9/7.	Problem Session.
9/11.	Section 7.1.
9/12.	Section 7.2.
9/13.	Section 7.3.
9/14.	Problem session.
9/18.	Section 7.4.
9/19.	Problem Session.
9/20.	Exam 1.
9/21.	Return Exam 1, start Section 8.1.
9/25.	Section 8.1.
9/26.	Section 8.2.
9/27.	Problem Session.
9/28.	Section 8.3.

10/2.	Problem Session.
10/3.	Section 9.1.
10/4.	Section 9.3.
10/5.	Problem Session.
10/9.	Section 9.4.
10/10.	Problem Session.
10/11.	Exam 2.
10/12.	Return Exam 2. Start Section 10.1.
10/16.	Section 10.1.
10/17.	Section 10.2.
10/18.	Problem Session.
10/19.	Section 10.3.
10/23.	Section 10.4
10/24.	Problem Session.
10/25.	Section 10.5.
10/26.	Section 10.6.
10/30.	Problem Session.
10/31.	Problem Session.
11/01.	Exam 3.
11/02.	Return Exam 3. Start Section 11.1.
11/06.	Section 11.1.
11/07.	Section 11.2.
11/08.	Problem Session.
11/09.	Section 11.3.
11/13.	Section 11.4.
11/14.	Section 11.5.
11/15.	Problems Session.
11/16.	Section 11.6.
11/20 – 11/26.	Thanksgiving Week.
11/27.	Problem Session.
11/28.	Problem Session.
11/29.	Exam 4.
11/30.	Return Exam 4. Start Section 11.8.

12/04. Section 11.8.
12/05. Section 11.9.
12/06. Section 11.10.
12/07. Problem Session.

12/12. (Tuesday) Final Exam. 8:00 A.M. – 9:50 A.M.

Grading: The Final Exam will be thought of as constituting Exams 5 and 6. If you had a 90 on the final exam, your grade for Exam 5 would be a 90, and your grade for Exam 6 would also be a 90. Therefore, after the final exam, each student will have six exam grades. The lowest of these six exam grades will be dropped, and the course average will be based on the remaining five exams. This numerical grade will be converted to a letter grade for the course. As we progress through the course, you will be kept informed concerning your grade.

Laptop Policy: The use of laptops and other electronic devices, except for hand held calculators, will not be permitted during exams.

Note:
This course satisfies the Foundation of Natural Science/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 probability and statistics 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 at 2001 C.B. Hedgcock (227-1700; TTY 227-1543). Reasonable and effective accommodations and services will be provided to studnts if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state and university guidelines.

MA 163: Assignments for Sections 6.1 – 6.3 and 7.1 – 7.4.

Section 6.1. Pages 442,443: #11, 17, 25, 27, 29.

Section 6.2. Pages 452,453: #5, 13, 31, 33, 35, 47, 49, + skewed cone.

Section 6.3. Pages 458,459: #1, 7, 23, 31, 37.

Section 7.1. Pages 480,481: #3, 7, 11, 17, 33, 41, 51.

Section 7.2. Page 488: #5, 11, 17, 27, 39, 45.

Section 7.3. Pages494,495: #3, 5, 9, 19, 35.

Section 7.4. Page 504: #3, 7, 13, 35.