

MA 161 CALCULUS I
Winter Semester, 2003
M-T-W-Th-F, 1:00-1:50, Jamrich 201

Instructor: Professor John Kiltinen
Office: NSF 1127
Telephone: 227-1600 or 227-2020
E-mail: kiltinen@nmu.edu

Prerequisites: For new freshman: a placement test recommendation for Calculus I. For others: MA 115, or equivalent, with a grade of C- or better.

Office Hours: 11:00-11:50 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, 4th edition, James Stewart, Brooks/Cole Publishing Company, 1999.

Computer and Calculator: We will make use of the TI Interactive software that comes installed on the laptop computers students lease from NMU. It is not required, but it will be convenient for students if they also have a graphing calculator. 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 will provide an introduction to the theory and applications of differential and integral calculus. It will cover Chapters 1 through 5 in the text. There will be an emphasis on visualizing the concepts that we will develop through the use of graphs. To allow for this, we will use graphing calculators 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+ = 87-89; 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 is expected whenever possible.

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

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 your professor or the Office of Student Support and Disability Services at 1104 University Center (phone: 227-1737). 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.

MA 161 Calculus I Daily Schedule

<u>Date</u>	<u>Sections</u>	<u>Problem Assignment</u>
Jan. 13	Introductory Lecture	
14	1.1	p. 22: 1-63 (odd)
15	1.2	p.35: 1-19 (odd)
16	1.3	p. 46: 1-65 (odd)
17	1.4.	p. 55: 1-41 (odd)

20	1.5	p. 63: 1-25 (odd)
21	1.6	p. 73: 1-57 (odd)
22	2.1	p.89: 1-9
23	Group Project 1 Session	
24	2.2	p. 99: 1-39 (odd)

27	2.3	p. 109: 1-57 (odd)
28	2.4	p. 120: 1-41 (odd)
29	2.5	p. 131: 1-61 (odd)
30	2.6	p. 144: 1-65 (odd)
31	Review for Test 1	

Feb. 03	Test 1	
04	Discuss Test 1	
05	2.7	p. 154: 1-25 (odd)
06	2.8	p. 161: 1-33 (odd)
07	2.9	p. 171: 1-45 (odd)

10	2.9	
11	3.1	p. 189: 1-61(odd)
12	3.2	p. 195: 1-43 (odd)
13	3.2	
14	3.3	p. 205: 1-33 (odd)

17	3.4	p. 213: 1-47 (odd)
18	3.5	p. 221: 1-77 (odd)
19	3.5-3.6	p. 230: 1-69 (odd)
20	3.6	
21	3.7	p. 237: 1-65 (odd)

24	3.8	p. 245: 1-51 (odd)
25	3.9	p. 257: 1-53 (odd)
26	3.10	p. 226: 1-35 (odd)
27	Review for Test 2	
28	Test 2	

Mar. 3-7	Mid-semester break.	No Classes

<u>Date</u>	<u>Sections</u>	<u>Problem Assignment</u>
Mar. 10	Discuss Test 2	
11	4.1	p. 284: 1-79 (odd)
12	4.2	p. 293: 1-35 (odd)
13	4.3	p. 302: 1-73 (odd)
14	4.3	

17	4.4	p.311: 1-79 (odd)
18	4.4	
19	4.5	p.321: 1-61 (odd)
20	4.6	p. 328: 1-37 (odd)
21	Group Project 2 Session	

24	4.7	p. 334: 1-57 (odd)
25	4.7	
26	4.9	p. 349: 1-39 (odd)
27	4.10	p. 356: 1-77 (odd)
28	Review for Test 3	

31	Test 3	
Apr. 01	Discuss Test 3	
02	5.1	p. 376: 1-23 (odd)
03	5.2	p. 388: 1-65 (odd)
04	5.2-5.3	p. 398: 1-65 (odd)

07	5.3	
08	5.4	p. 407: 1-63 (odd)
09	Group Project 3 Session 1	
10	Group Project 3 Session 2	
11	5.5	p. 416: 1-83 (odd)

14	5.5	
15	5.6	p. 425: 1-10
16	6.1	p. 438: 1-49 (odd)
17	6.1-6.2	p. 448: 1-69 (odd)
18	6.2	

21	Review for Test 4	
22	Test 4	
23	Discuss Test 4	
24-25	Review for Final Exam	

Final Exam Wednesday, April 30. 12:00 - 1:50 P.M.