

Welcome to Michigan State University

Math 132

Fall 2006

Course: **Calculus One**
Professor: Andrew Christlieb
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Office Hours: 1:30-2:30pm MWF
OR BY APPOINTMENT
Book: Thomas' Calculus, 11th
By: George Thomas
Time: 9:00-10:00am
Location: C314 Wells Hall

Topics/Chapters:

- Limits and Continuity (Ch 2.1-2.6)
- Differentiation (Ch 3.1-3.8)
- Applications of Derivatives (Ch 4.1-4.8)
- Integration (Ch 5.1-5.6)

Goals: The objective of this course is to introduce students to the fundamental language of modern science. With guidance from the instructor, the students will be expected to become proficient with the basic concepts as well as the basic manipulations associated with these fundamental ideas.

Effective Study Habits: This course will require a serious commitment of time. Although each person learns different, an effective study strategy I would suggest you adopt is:

- skim read the section to be covered in class **the night before**,
- **after class**, read your notes, and if time permits, rewrite your notes,
- **before starting the assessment from class**, carefully reread the chapter,
- be sure to complete all assigned problems before the next quiz and **PLEASE** come talk to me if you have questions.

Attendance: You are expected to attend all class meetings. However, attendance is not counted in the overall course grade. Note that changes to the exam/quiz times and materiel

covered will be only announced during class. If you must miss a class, it is solely your responsibility to get all the material missed from the class.

Homework: There will be a homework assignment at the end of each class. Homework assignments will **NOT** be collected, but quizzes and exams will be based on the assigned problems.

Quizzes: Except for the first week of class and any week with an in-class exam, there will be a weekly quiz. The quiz will be held each Friday and will be directly based on the assigned homework. There are **NO makeup** quizzes. Each quiz will be worth 10 points. The lowest two quizzes will be dropped. The total score of the remaining quizzes will be scaled to a total of 100 points.

Exams: Four in-class exams and one final exam. The final exam will be comprehensive. Each in-class exam is worth 100 points and the final is worth 200 points. There are **NO makeup** makeup exams without a **VALID** excuse. The lowest in-class exam score will be dropped.

Gate Way Exams: There are two Gate Way exams you are expected to pass. Each exam is worth 5 extra credit points. The two exams can be used to replace one additional quiz score with a perfect 10 points. The gate way exams are take out side of class. You are responsible for figuring out when and where the two exams are available for you to take. The web page for finding out about the gate way exams can be found at

<http://www.mth.msu.edu/CurrentStudents/Gateway/Default.aspx>.

Course Grade:

Quizzes:	$\frac{1}{6}$ Final Grad
Three in-class exams:	$\frac{1}{2}$ Final Grad
Final Exam:	$\frac{1}{3}$ Final Grad
Gate Way:	(10 points = One Quiz)

90 – 100%	85 – 89%	80 – 84%	70 – 79%	65 – 69%	60 – 64%	50 – 59%	50 – %
4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.0

Grade Review Policy: No grades will be discussed immediately before class, in class or immediately following class. Questions about a particular grade assigned may be discussed in office hours or by appointment.

Written requests for the review of a grade may be placed in my mailbox with the quiz or exam. I will not accept grade review requests in class.

Calculators/Computers: Although calculators and computers are useful tools for exploring new concepts, we are not interested in how well your calculator or computer knows the material. Hence, the use of calculators and computers during exams is prohibited, i.e., NO calculators or computers may **not** be used while taking exams and quizzes.

Unclaimed Assignment Policy: Assignments not retrieved on the day of return can be picked up during office hours only.

E-mail Policy: I will respond to e-mail within a 24 hour period of having received your message, unless I encounter extenuating circumstances. E-mail does not provide 24 hour access to me.

Academic Honesty: The University's policy concerning academic integrity is covered in the Spartan Lift booklet, General Student Regulations. According to the handbook, "no student shall claim or submit the work of another as one's own". This applies to the final exam, hour-tests and quizzes. You are on your honor to abide by these regulations. However, you are encouraged to work on the homework problems in groups.

Mathematics Learning Center: The Mathematics Learning Center(MLC) provides free, friendly and professional assistance for students in Math 132 and other mathematics courses as well. It is located in the A-Wing of Wells Hall. To use it sign in at the window in the lobby. The monitor there will direct you to the appropriate room for Math 132. For open hours and more information, please go to the website

<http://www.math.msu.edu/mlc/>

Syllabus:

Date	Sec.	Assignment
8/28	(2.1)	1, 3, 4, 5, 6, 23, 25, 26, 27, 28, 29, 30, 32, 33
8/30	(2.2)	3, 5, 7, 12, 15, 17, 18, 19, 21, 24, 27, 29, 30, 37
9/1	(2.2)	43, 45, 46, 49, 50, 51a.
	(2.3)	Read only to, "Using the Definition to Prove Theorems". Supplemental Exercises for Section 2.3; 1-9 (odd).
9/4		Labor Day. No classes.
9/6	(2.4)	1, 3, 9, 11, 15, 17, 18, 21, 23, 25, 26, 29, 31, 32, 33, 34, 35, 37, 39, 42. MTH 132 Gateway Exam I begins.
9/8	(2.4)	43, 46, 47, 49, 51, 53, 54, 57, 58, 59, 61, 62, 65, 66. Supplemental Exercises for Section 2.4; 2, 4, 5, 7, 10.
9/11	(2.5)	1, 3, 4, 6, 7, 11, 12, 13, 14, 31, 33, 35, 36, 41, 42.
9/13	(2.6)	1, 3, 4, 5, 6, 13, 15, 16, 20, 25, 26, 27, 29, 30, 35, 36, 45, 46, 48. Supplemental Exercises for Section 2.6; 2, 4, 5, 7.
9/15	Review	9, 11, 13, 21, 23, 25, 31, 37a, 38a,
9/18		Test 1 covering Chapter 2.
9/20	(3.1)	1, 2, 3, 4, 7, 9, 10, 13, 15, 16, 17, 19, 21, 22, 23, 25-32 all.
9/21		Last day to drop a course and receive a full refund.
9/22	(3.2)	5, 7, 9, 17, 19, 20, 21, 22, 25, 27, 28, 33, 35, 36, 39.
9/25	(3.3)	3, 5, 6, 7, 9, 11, 12, 13, 15, 16, 18, 19.
9/27	(3.4)	1, 4, 5, 7, 9, 10, 11, 12, 13, 15, 16, 17, 19, 20, 25, 27, 29, 43, 49.
9/29	(3.5)	19, 21, 23, 25, 26, 28, 29, 31, 32, 33, 35, 36, 37, 41, 43, 44, 45, 48, 49, 52, 55. MTH 132 Gateway Exam I ends.
10/2	(3.5)	67, 69, 70, 73, 78, 79. MTH 132 Gateway Exam II begins.

10/4	(3.6)	Read to, “Rational Powers of Differentiable Functions.” Read Supplemental Material for Section 3.6. 1, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 19, 21, 23, 24, 53. Supplemental Exercises for Section 3.6; 1, 2, 5, 7, 8.
10/6	(3.7)	1, 3, 4, 7, 11, 13, 14, 17, 19, 23, 24, 32.
10/9	(3.8)	Read to, “Proof of the Chain Rule.” 3, 5, 6, 13, 14, 39, 41, 43, 45, approximate the square root of 63 and the cube root of 28.
10/11	Review	5, 9, 11, 13, 17, 19, 23, 39, 43, 49, 57, 61, 63, 67, 69, 87, 89, 91, 97, 111, 115, 121, 123.
10/13		Test 2 through Chapter 3.
10/16	(4.1)	1-4, 7, 9, 11, 13, 15, 17, 21, 24, 25, 26, 29, 30, 31, 32, 34.
10/17		Last day to drop a course with no grade reported.
10/18	(4.2)	3, 14, 15, 16, 23, 27, 28, 29, 31, 33, 34, 36, 45, 51, 55, 58, 64.
10/20	(4.3)	1, 3, 4, 7, 8, 9, 12, 15, 18, 21, 22, 24, 25, 26, 27, 29, 33, 34, 43, 45, 46.
10/23	(4.4)	1, 3, 4, 7, 11, 15, 18, 19, 23, 26, 27, 29, 30, 31, 32, 34, 35.
10/25	(4.4)	41, 43, 44, 48, 49, 50, 68, 70, 76.
10/27	(4.5)	1, 3, 4, 5, 6, 8, 10, 11, 13, 15, 17. MTH 132 Gateway Exam II ends.
10/30	(4.5)	18, 22, 23, 27, 33, 43 .
11/1	(4.6)	5, 7, 8, 10, 11, 15, 18, 22, 23.
11/3	(4.7)	1, 3, 4, 5. Supplemental Exercises for Section 4.7; 1, 3, 4.
11/6	(4.8)	5, 7, 10, 11, 13, 16, 17, 19, 25, 27, 28, 31, 33, 35, 37, 38, 40, 42, 43, 57, 64, 67, 69, 72, 76, 79, 80.
11/8	Review	6, 12, 16, 17, 65, 67, 73, 77, 79, 91, 93.
11/10		Test 3 covering through Chapter 4.
11/13	(5.1)	1, 3, 9, 12, 13.
11/15	(5.2)	1, 3, 7, 8, 19, 21, 23, 25, 26.
11/17	(5.2)	29, 31, 32, 35, 37, 38,
	(5.3)	Read Supplemental Material 5.3; 1(a)(b)(c)(f)(g), 3, 4(a)(d)(e)(g)(i).
11/20	(5.3)	9, 10, 17, 19, 20, 55, 57, 58, 77.
	(5.4)	1, 4, 5, 7, 8, 11, 14, 15, 17, 19, 20, 23, 25, 26.
11/22	(5.4)	27, 29, 30, 31, 33, 34, 37, 40, 42.
11/24		Thanksgiving Break
11/27	(5.5)	7, 10, 15, 17, 19, 22, 23, 26, 27, 30.
11/29	(5.5)	31, 32, 33, 35, 36, 38, 41, 42, 45, 53, 56, 61.
	(5.6)	Read Supplemental Material 5.6; 1, 3, 7, 10, 12, 13, 18, 19, 20, 23, 24, 32, 35, 38, 39.
12/1	(5.6)	43, 47, 48, 53, 58, 59, 61, 66, 71, 73, 77.
12/4	Review	9, 15, 21, 27, 31, 37, 43, 53, 59, 65.
12/6		Test 4 covering through Chapter 5.
12/8		Review
12/11		Final Exam 10:00 to noon