

# Spring Semester 2010

## Math 132 Section 014

Time and Place : Mon. Wed. Fri.: 12:40-1:30 at C316 WH  
Instructor : Manish Kumar  
Office : A321 Wells Hall. Tel. 517 432 1619.  
Email : [mkumar@math.msu.edu](mailto:mkumar@math.msu.edu)  
Course webpage: <http://www.math.msu.edu/~mkumar/teaching.html>  
Office hours : Mon 3:30 to 4:30, Thr 11:30 to 1:00 and by appointment.  
Text : THOMAS' CALCULUS (Chapters 2, 3, 4 and 5).

### Important Dates:

Monday – 1/11/10 – Classes Begin

Friday – 1/15/10 – Online open add period for Spring semester ends at 8pm.  
– Last day to change to CR/NC.

Monday – 1/18/10 – Martin Luther King, Jr. Day. No classes are held. The University is open.

Monday 1/18/10 to Friday 1/22/10 – Students go to Undergraduate office, A212 Wells Hall for Mathematics enrollment changes. (late adds, drop to lower course, section changes)

Friday – 1/22/10 – Last day to late add a course or change sections within a course. Last day to drop to a lower level course.

Thursday – 2/4/10 – End of Tuition Refund

Wednesday – 3/3/10 – Middle of Semester, Last day to drop a course without a grade being reported.

Monday 3/08/10 to Friday 03/12/10 – Spring Break – no classes. The University is open.

Friday – 4/30/10 – Last day of classes.

### Exams:

Midterm 1 Covering chapter 2, 02/01/10 (Wednesday), (**100 Points**).

Midterm 2 Covering chapter 3, 02/26/10 (Monday), (**100 Points**).

Midterm 3 Covering chapter 4, 04/02/10 (Monday), (**100 Points**).

FINAL EXAM: 10:00 – 12:00, 05/04/10, (**200 Points**).

## Tutoring at MLC:

Tutoring at the Math Learning Center is offered. See the details at:  
<http://www.math.msu.edu/CurrentStudents/LearningCenter/hours.aspx>

## Gateway Exams:

Two gateway exams are required for all students taking MTH 132. Students may take each exam as often as necessary in order to pass it, except that only one attempt per day is allowed. *You will be able to take these exams on the computers in Lab B100E Wells Hall only!!* For more details see:  
<http://www.mth.msu.edu/CurrentStudents/Gateway/Default.aspx>  
Students will be given **10 points** for passing each of the exams.

## Homework(Quizzes):

One or two problems from each homework will be collected everyday at the end of the class. Each Homework will be worth 10 points and at the end of the semester it will be scaled down to **130 points**. Three lowest homework scores will be dropped before the scaling. You can get help in Math Learning center or my office hours with homework problems you may find difficult.

## Final grade:

The Maximum you can score is **650** (3 midterm tests worth 100 each, 200 for the final exam, 20 for the gateway exam and 130 for the homework).

Cutoffs for the final grade will be the following:

4.0 - 90%	2.0 - 62%
3.5 - 84%	1.5 - 54%
3.0 - 78%	1.0 - 45%
2.5 - 70%	0.0 - <45%

This means, in particular, you are assured of a '3.5' if your score is between 84% and 90%. But you may get a higher grade.

**NOTE:** The University policy concerning academic integrity is covered in the Spartan Life Student Handbook and Resource Guide, General Rules and Regulations. According to the handbook:  
"No student shall claim or submit the work of another as one's own"

## SCHEDULE AND TENTATIVE ASSIGNMENTS

**The assignments listed below are tentative and subject to changes which will be announced in class.**

Day	Sect	Exercises
1/11	2.1	1, 3, 4, 5, 6, 23, 25, 26, 27, 28, 29, 30, 32, 33.
1/13	2.2	3, 5, 7, 12, 15, 17, 18, 19, 21, 24, 27, 29, 30, 37.
1/15	2.2	43, 45, 46, 49, 50, 51a.
	2.3	Read only to, "Using the Definition to Prove Theorems". Supplemental Exercises 2.3.
1/17		<b>Gateway Exam 1 begins.</b>
1/18		Martin Luther King, Jr. Day. No classes.
1/20	2.4	1, 3, 9, 11, 15, 17, 18, 21, 23, 25, 26, 29, 31, 32, 33, 34, 35, 37, 39, 42.
1/22	2.4	43, 46, 47, 49, 51, 53, 54, 57, 58, 59, 61, 62, 65, 66. Supplemental Exercises 2.4.
1/25	2.5	1, 3, 4, 6, 7, 11, 12, 13, 14, 31, 33, 35, 36, 41, 42.
1/27	2.6	1, 3, 4, 5, 6, 13, 15, 16, 20, 25, 26, 27, 29, 30, 35, 36, 45, 46, 48. Supplemental Exercises 2.6.
1/29	Review	9, 11, 13, 21, 23, 25, 31, 37a, 38a,
2/1		Test 1 covering Chapter 2.
2/3	3.1	1, 2, 3, 4, 7, 9, 10, 13, 15, 16, 17, 19, 21, 22, 23, 25-32 all.
2/4		Last day to drop a course and receive a full refund.
2/5	3.2	5, 7, 9, 17, 19, 20, 21, 22, 25, 27, 28, 33, 35, 36, 39. <b>Gateway Exam 1 ends.</b>
2/8	3.3	3, 5, 6, 7, 9, 11, 12, 13, 15, 16, 18, 19.
2/10	3.4	1, 4, 5, 7, 9, 10, 11, 12, 13, 15, 16, 17, 19, 20, 25, 27, 29, 43, 49.
2/12	3.5	19, 21, 23, 25, 26, 28, 29, 31, 32, 33, 35, 36, 37, 41, 43, 44, 45, 48, 49, 52, 55.
2/15	3.5	67, 69, 70, 73, 78, 79.
2/17	3.6	Read to, "Rational Powers of Differentiable Functions." Read Supplemental Material 3.6. Section 3.6. 1, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 19, 21, 23, 24, 53. Supplemental Exercises 3.6
2/19	3.7	1, 3, 4, 7, 11, 13, 14, 17, 19, 23, 24, 32.
2/22	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.
2/24	Review	5, 9, 11, 13, 17, 19, 23, 39, 43, 49, 57, 61, 63, 67, 69, 87, 89, 91, 97, 111, 115, 121, 123.
2/26		Test 2 through Chapter 3.
3/1	4.1	1-4, 7, 9, 11, 13, 15, 17, 21, 24, 25, 26, 29, 30, 31, 32, 34.
3/3	4.2	3, 14, 15, 16, 23, 27, 28, 29, 31, 33, 34, 36, 45, 51, 55, 58, 64.
3/3		Last day to drop a course with no grade reported.
3/5	4.3	1, 3, 4, 7, 8, 9, 12, 15, 18, 21, 22, 24, 25, 26, 27, 29, 33, 34, 43, 45, 46.
3/8 - 3/12		SPRING BREAK
3/15	4.4	1, 3, 4, 7, 11, 15, 18, 19, 23, 26, 27, 29, 30, 31, 32, 34, 35. <b>Gateway Exam 2 begins.</b>
3/17	4.4	41, 43, 44, 48, 49, 50, 68, 70, 76.
3/19	4.5	1, 3, 4, 5, 6, 8, 10, 11, 13, 15, 17.
3/22	4.5	22, 23, 27, 33, 43.
3/24	4.6	5, 7, 8, 10, 11, 15, 18, 22, 23.
3/26	4.7	1, 3, 4, 5. Supplemental Exercises 4.7
3/29	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.
3/31	Review	6, 12, 16, 17, 65, 67, 73, 77, 79, 91, 93.
4/2		Test 3 covering through Chapter 4. <b>Gateway Exam 2 ends.</b>
4/5	5.1	1, 3, 9, 12, 13.
4/7	5.2	1, 3, 7, 8, 19, 21, 23, 25, 26.
4/9	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).

4/12 5.3 9, 10, 17, 19, 20, 55, 57, 58, 77.  
4/14 5.4 1, 4, 5, 7, 8, 11, 14, 15, 17, 19, 20, 23, 25, 26.  
4/16 5.4 27, 29, 30, 31, 33, 34, 37, 40, 42.  
4/19 5.5 7, 10, 15, 17, 19, 22, 23, 26, 27, 30.  
4/21 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.  
4/23 5.6 43, 47, 48, 53, 58, 59, 61, 66, 71, 73, 77.  
4/26 Review 9, 15, 21, 27, 31, 37, 43, 53, 59, 65.  
4/28 Review  
4/30 Review  
5/4 Tuesday Final Exam 10:00 to noon