

Calculus I

MTH 132 Section 002 and Section 015

Instructor: KiHyun Yun, PhD

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Office Hours: Mondays, Wednesdays and Fridays 10:10 – 11:10am (**tentative**),
or by appointment.

Homepage: <http://www.math.msu.edu/~kyun/cal>

Text: “*Thomas’ Calculus*”: 11th Edition, Pearson Addison Wesley.

Location: sec 002: C111 WH
sec 015: 2245 EB

Schedule:

days: M W F

time: sec 002 : 9:10 - 10:00,
sec015 : 11:30 - 12:20

Tests: There will be four in-class exams and a uniform final exam (Apr 30, 10:00am - noon). Each in-class exam (100 points for each) will cover only the material since the previous test. However, the final (200 points) is a uniform and comprehensive test covering all material in this semester.

- Test 1 Covering chapter 2, 09/15/08, (100 Points).
- Test 2 Covering chapter 3, 10/10/08, (100 Points).
- Test 3 Covering chapter 4, 11/07/08, (100 Points).
- Test 4 Covering chapter 5, 12/03/08, (100 Points).
- **FINAL EXAM: 10:00am – Noon 12/08/08, (200 Points).**

Then room locations for the final will be announced when they become available. All tests and final exam are closed book and closed notes and without the aid of any calculator.

Quizzes: There will be pop quizzes. Each quiz is worth 10 points.

You must take at the time they are given. There are no excuses other than incapacitating for missing exam. Make-ups will not be permitted except for a severe medical problem or dire family emergency. A written note from an appropriate person (doctor, father, etc.) is required. If at all possible, you should contact Dr. Yun before the missed test. A missed test or final exam will receive the score 0.

Grading: Your course grade will be determined as follows.

- Four hour exams 4 X 100 = 400 points
- final exams 200 points
- homework + pop quizzes 100 points

The grading scale is no worse than what is shown in the table below:

90–100%	4.0	65–72	2.0
85–89	3.5	60–64	1.5
79–84	3.0	55–59	1.0
73–78	2.5	0–54	0.0

Gateway exam: All MTH 132 students will be required to take the Gateway Exams. There are two during the semester. The first consists of 10 questions covering algebra. The grading is right/wrong. It takes 8 correct answers to pass. A student may take it once a day until he/she passes.

Gateway exam I opens on Sept. 3 and runs through Sept. 26.
Gateway exam II begins Sept. 29 and ends Oct. 24.

It covers elementary differentiation techniques. For more details see:
<http://www.mth.msu.edu/CurrentStudents/Gateway/Default.aspx>

Homework: Homework will be assigned each lecture and should be submitted within one week. Homework is worth full credit at the beginning of class on the due date, it is worth half credit for the next 48 hours, and worth zero credit after that.

The only way to understand the subject is to work on lots of problems, so DO THE HOMEWORK yourself! Do not leave homework to the last minute; it can take a while. Note that you are not done with a problem just because you got the right answer. You are only done when you understand why the methods you used had to have worked. If all you are doing is blindly applying formulas and mimicking examples, get extra help. The problems should make sense to you. You should be able to solve the problem and similar ones with closed book and notes.

Submitting the homework. Please prepare your homework according to the following rules:

1. Write your name clearly at the top of every page.

2. Turn in assignments on time.
3. Write clearly. If your homework is too messy, a grader may choose not to grade it.
4. Staple your homework. Paper clips, folded corners, etc. are not acceptable.

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”

Resources: If you don't understand something, there are plenty of ways to go: questions are welcome in class. For a longer conversation, I have regular office hours. It may be possible to make an appointment for another time if you need to; email me and we'll see what we can do. The Mathematics Learning Center (MLC) is located in the A-wing lobby of Wells Hall. Please come to the MLC for free, friendly, courteous help with your mathematics class. For more information about the location of the MLC, please go to

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

SCHEDULE AND TENTATIVE ASSIGNMENTS

The assignments listed below are just the exercise problems recommended by Math department. Please note that we have our own home-works.

Day	Sect	Exercises
8/25	2.1	1, 3, 4, 5, 6, 23, 25, 26, 27, 28, 29, 30, 32, 33.
8/27	2.2	3, 5, 7, 12, 15, 17, 18, 19, 21, 24, 27, 29, 30, 37.
8/29	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).
9/1		Labor Day. No classes.
9/3	2.4	1, 3, 9, 11, 15, 17, 18, 21, 23, 25, 26, 29, 31, 32, 33, 34, 35, 37, 39, 42.
9/3		MTH 132 Gateway Exam I begins.
9/5	2.4	43, 46, 47, 49, 51, 53, 54, 57, 58, 59, 62, 65, 66. Supplemental Exercises for Section 2.4; 2, 4, 5, 7, 10.
9/8	2.5	1, 3, 4, 6, 7, 11, 12, 13, 14, 31, 33, 35, 36, 41, 42.
9/10	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.
9/12	Review	9, 11, 13, 21, 23, 25, 31, 37a, 38a,
9/15		Test 1 covering Chapter 2.
9/17	3.1	1, 2, 3, 4, 7, 9, 10, 13, 15, 16, 17, 19, 21, 22, 23, 25-32 all.

9/18		Last day to drop a course and receive a full refund.
9/19	3.2	5, 7, 9, 17, 19, 20, 21, 22, 25, 27, 28, 33, 35, 36, 39.
9/22	3.3	3, 5, 6, 7, 9, 11, 12, 13, 15, 16, 18, 19.
9/24	3.4	1, 4, 5, 7, 9, 10, 11, 12, 13, 15, 16, 17, 19, 20, 25, 27, 29, 43, 49.
9/26	3.5	19, 21, 23, 25, 26, 28, 29, 31, 32, 33, 35, 36, 37, 41, 43, 44, 45, 48, 49, 52, 55.
9/26		MTH 132 Gateway Exam I ends.
9/29	3.5	67, 69, 70, 73, 78, 79.
9/29		MTH 132 Gateway Exam II begins.
10/1	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.
10/3	3.7	1, 3, 4, 7, 11, 13, 14, 17, 19, 23, 24, 32.
10/6	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.
10/8	Review	5, 9, 11, 13, 17, 19, 23, 39, 43, 49, 57, 61, 63, 67, 69, 87, 89, 91, 97, 111, 115, 121, 123.
10/10		Test 2 through Chapter 3.
10/13	4.1	1-4, 7, 9, 11, 13, 15, 17, 21, 24, 25, 26, 29, 30, 31, 32, 34.
10/14		Last day to drop a course with no grade reported.
10/15	4.2	3, 14, 15, 16, 23, 27, 28, 29, 31, 33, 34, 36, 45, 51, 55, 58, 64.
10/17	4.3	1, 3, 4, 7, 8, 9, 12, 15, 18, 21, 22, 24, 25, 26, 27, 29, 33, 34, 43, 45, 46.
10/20	4.4	1, 3, 4, 7, 11, 15, 18, 19, 23, 26, 27, 29, 30, 31, 32, 34, 35.
10/22	4.4	41, 43, 44, 48, 49, 50, 68, 70, 76.
10/24	4.5	1, 3, 4, 5, 6, 8, 10, 11, 13, 15, 17.
10/24		MTH 132 Gateway Exam II ends.
10/27	4.5	18, 22, 23, 27, 33, 43 .
10/29	4.6	5, 7, 8, 10, 11, 15, 18, 22, 23.
10/31	4.7	1, 3, 4, 5. Supplemental Exercises for Section 4.7; 1, 3, 4.
11/3	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.
11/5	Review	6, 12, 16, 17, 65, 67, 73, 77, 79, 91, 93.
11/7		Test 3 covering through Chapter 4.
11/10	5.1	1, 3, 9, 12, 13.
11/12	5.2	1, 3, 7, 8, 19, 21, 23, 25, 26.
11/14	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).
11/17	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.

11/19	5.4	27, 29, 30, 31, 33, 34, 37, 40, 42.
11/21	5.5	7, 10, 15, 17, 19, 22, 23, 26, 27, 30.
11/24	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.
11/26	5.6	43, 47, 48, 53, 58, 59, 61, 66, 71, 73, 77.
11/28		Thanksgiving Break
12/1	Review	9, 15, 21, 27, 31, 37, 43, 53, 59, 65.
12/3		Test 4 covering through Chapter 5.
12/5	Review	
12/8		Final Exam 10:00 to noon

Important dates

Monday – 08/25/08 – Classes Begin

Friday – 08/29/08 – Online open add period for Fall ends at 8pm.

Monday – 09/01/08 – Labor Day – University closed

Tuesday 09/02/08 to Friday 09/05/08 – Students go to Undergraduate office, A212 Wells Hall for Mathematics enrollment changes. (late adds, drop to lower course, section changes)

Friday – 09/05/08 – Last day to late add a course or change sections within a course. Last day to drop to a lower level course.

Thursday – 09/18/08 – End of Tuition Refund

Tuesday – 10/14/08 – Middle of Semester, Last day to drop a course without a grade being reported.

Thursday 11/27/08 to Friday 11/28/08 – Thanksgiving Break

Friday – 12/05/08 – Last day of classes.

Common Math Final Exam is Monday, December 08 – 10:00am -12 noon