

MTH 132: Section 102
Calculus I
Summer 2010

Meeting Times: Monday, Wednesday and Friday 12:40 – 2:30

Location: 152 Natural Resources Bldg

Instructor: Alexandria Theakston

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Office: A547 Wells Hall

MLC Hours: Wednesday 2:50 – 5:10

Website: <http://www.math.msu.edu/~theakst1/132>

Prerequisite: MTH 103 and MTH 114 or MTH 116 or Designated Score on Mathematics Placement Test

Text: *Thomas' Calculus, 11th Edition*, Pearson Addison Wesley, 2005

Calculators: Calculator use is not permitted.

Assessment: There will be **three midterm examinations** (100 points each), **six homework evaluations** (20 points each) and a **final exam** (200 points). One of the six homework evaluations will be dropped. There are 600 total points in this course. The grading scale will be 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

Homework / Homework Evaluations: There will be six homework evaluations in which students will be asked to write down solutions for particular homework problems within an allotted time in class. Thus, it is to the benefit of the student to keep an organized homework notebook. A list of required homework problems is provided below. Additional problems may be added when deemed appropriate by the instructor.

Attendance: Students are expected to attend all lectures. According to the Academic Programs, 2002-04, pg. 83, the University has a policy for non-attendance. As students are responsible for all material covered, it is the responsibility of the student to obtain missed material from classmates. Any changes to the syllabus or in the scheduling of examinations or quizzes will be announced in class. Additionally, extra credit opportunities will only be offered to students who have taken their attendance and participation responsibilities seriously.

Make-up Policy: There will be no make-up exams. A missed exam will receive a zero unless a valid reason is presented before the time of the exam. Advance travel schedules (business or personal) are NOT excuses (i.e. weddings, work, vacations, family reunions, etc.).

Grade-change Policy: If you have any questions regarding grading of any of your graded material, you should return the graded material to your instructor before leaving the classroom. Once the graded material has left the classroom, no grading changes will be made.

Integrity of Scholarship and Grades: All students are expected to adhere to the University's policy concerning academic integrity. It is covered in the *Spartan Life booklet* under *General Student Regulations*. According to the handbook, "... no student shall claim or submit the work of another as one's own." For more information about this and other scholarship issues, please consult the handbook or visit the Spartan Life web site at <http://www.vps.msu.edu/SpLife/>

Math Learning Center (MLC):

Help is available through the Math Department at the Math Learning Center (MLC). It is located on the first floor, A-wing, of Wells Hall. The weekly hours are Monday through Thursday from 2:50 p.m. until 7:30 p.m. For more information, please visit the MLC website at <http://www.math.msu.edu/CurrentStudents/LearningCenter/Default.aspx>

Important Dates:

05/17/10	Class Begins
05/19/10	Open Adds End in A212 Wells Hall (8:00 p.m.)
05/27/10	Last Day to Drop with Refund (8:00 p.m.)
05/28/10	Exam I
05/31/10	Holiday, Classes Canceled
06/09/10	Last Day to Drop with No Grade Reported (8:00 p.m.)
06/11/10	Exam II
06/25/10	Exam III
06/30/10	Final Exam (Last Day of Class)

Assigned Homework Problems

Section	Exercises	Supplemental Readings and Exercises
2.1	1, 3, 4, 5, 6, 23, 25, 26, 27, 28, 29, 30, 32, 33.	
2.2	3, 5, 7, 12, 15, 17, 18, 19, 21, 24, 27, 29, 30, 37, 43, 45, 46, 49, 50, 51a.	
2.4	1, 3, 9, 11, 15, 17, 18, 21, 23, 25, 26, 29, 31, 32, 33, 34, 35, 37, 39, 42, 43, 46, 47, 49, 51, 53, 54, 57, 58, 59, 62, 65, 66.	Supplemental Exercises for Section 2.4; 2, 4, 5, 7, 10.
2.5	1, 3, 4, 6, 7, 11, 12, 13, 14, 31, 33, 35, 36, 41, 42.	
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.
Review	9, 11, 13, 21, 23, 25, 31, 37a, 38a.	
3.1	1, 2, 3, 4, 7, 9, 10, 13, 15, 16, 17, 19, 21, 22, 23, 25-32 all.	
3.2	5, 7, 9, 17, 19, 20, 21, 22, 25, 27, 28, 33, 35, 36, 39.	
3.3	3, 5, 6, 7, 9, 11, 12, 13, 15, 16, 18, 19.	
3.4	1, 4, 5, 7, 9, 10, 11, 12, 13, 15, 16, 17, 19, 20, 25, 27, 29, 43, 49.	
3.5	19, 21, 23, 25, 26, 28, 29, 31, 32, 33, 35, 36, 37, 41, 43, 44, 45, 48, 49, 52, 55, 67, 69, 70, 73, 78, 79.	
3.6	Read to, "Rational Powers of Differentiable Functions." 1, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 19, 21, 23, 24, 53.	Read Supplemental Material for Section 3.6. Supplemental Exercises for Section 3.6; 1, 2, 5, 7, 8.
3.7	1, 3, 4, 7, 11, 13, 14, 17, 19, 23, 24, 32.	
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.	
Review	5, 9, 11, 13, 17, 19, 23, 39, 43, 49, 57, 61, 63, 67, 69, 87, 89, 91, 97, 111, 115, 121, 123.	
4.1	1-4, 7, 9, 11, 13, 15, 17, 21, 24, 25, 26, 29, 30, 31, 32, 34.	
4.2	3, 14, 15, 16, 23, 27, 28, 29, 31, 33, 34, 36, 45, 51, 55, 58, 64.	
4.3	1, 3, 4, 7, 8, 9, 12, 15, 18, 21, 22, 24, 25, 26, 27, 29, 33, 34, 43, 45, 46.	
4.4	1, 3, 4, 7, 11, 15, 18, 19, 23, 26, 27, 29, 30, 31, 32, 34, 35, 41, 43, 44,	

4.5 1, 3, 4, 5, 6, 8, 10, 11, 13, 15, 17, 18, 22, 23, 27, 33, 43.
 4.6 5, 7, 8, 10, 11, 15, 18, 22, 23.
 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.
 Review 6, 12, 16, 17, 65, 67, 73, 77, 79, 91, 93.
 5.1 1, 3, 9, 12, 13.
 5.2 1, 3, 7, 8, 19, 21, 23, 25, 26, 29, 31, 32, 35, 37, 38.
 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, 27, 29, 30, 31, 33, 34, 37,
 40, 42.
 5.5 7, 10, 15, 17, 19, 22, 23, 26, 27, 30, 31, 32, 33, 35, 36, 38, 41, 42, 45,
 53, 56, 61.
 5.6 1, 3, 7, 10, 12, 13, 18, 19, 20, 23, 24, 32, 35, 38, 39, 43, 47, 48, 53, 58,
 59, 61, 66, 71, 73, 77.
 Review 9, 15, 21, 27, 31, 37, 43, 53, 59, 65.

Read Supplemental Material 5.3.
 Supplemental Exercises for Section 5.3;
 1(a)(b)(c)(f)(g), 3, 4(a)(d)(e)(g)(i).

Read Supplemental Material 5.6.