

Math 132, section 016, Fall 2009

Lecture: MWF 11:30 - 12:20 in C-103 Wells Hall (WH).

Lecturer: Dr Effie Kalfagianni, D-323 Wells Hall

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Office hours: MW 2:00-3:00, F 3:00-4:00 in D-323 Wells Hall.

Textbook: *Thomas's Calculus* (11th Edition), Part I.

Exams: Three midterm exams (in class) and a (common) two hour final. You must also take and pass the two Gateway Exams administered by the Math Department.

Midterm Dates: (tentatively) Friday September 25, Wednesday October 28, and Wednesday December 2.

Final Exam Date: Monday, December 14, 10:00am -12 noon; location TBA.

Gateway Exam Dates: September 11 -October 5 (Exam I); October 7-November 2 (Exam II).

Quizzes: Every Friday, when possible. There will be no quiz on Friday September 4.

Homework: A list of suggested homework problems is attached at the end of this syllabus; additional ones might be assigned in class. The homework will NOT be collected or graded. However, *solving these problems is essential for keeping up with the class*. Moreover, the exams and quizzes will be of the same spirit or even contain identical problems. You are expected to work on all the assigned problems corresponding to a lecture before you come to the next lecture.

Missed Lecture(s): If you miss a class, you are responsible for covering the material before you return to class. You should read the corresponding section(s) of the book and if possible get notes from a classmate. Although you are encouraged to discuss your questions with me during my office hours, note that office hours cannot be used as a substitute of a missed class.

Missed Exams: There will be no make-up exams and quizzes. Under extremely rare circumstances, such as serious illness with a written doctor's excuse, will an exception be made in the case of an exam.

Under no circumstances will an exception be made in the case of quiz.

Exam-Quiz rules/content: The material that each quiz will cover will be announced in class the lecture before the quiz. All exams and quizzes are closed book, and closed notes.

Each of the midterm tests will cover only the material since the previous test. The final exam will cover material from the whole course.

Calculators: The use of calculators is NOT permitted when taking quizzes or exams.

Grading scheme: The course has a total of 600 points. Here is how each component of the course will be weighted:

- Each midterm will count for 90 points
- The combined quizzes will count for 90 points
- Each Gateway Exam will count for 20 points
- The final exam will count for 200 points

The lowest two quizzes will not be counted. If you miss a quiz it will count as one of these two.

If your final point total is in the range below, you are guaranteed the corresponding grade:

Point total	Grade
541-600	4.0
511-540	3.5
481-510	3.0
451-480	2.5
421-450	2.0
391-420	1.5
361-390	1.0

If the situation warrants, final grades may be higher than given by this breakdown, but they will not be lower.

Important Dates for Fall Semester 2009:

- Wednesday 09/02/2009 Classes Begin. Students should go to regularly scheduled Monday classes on the first day.
- Monday 09/07/2009 Labor Day University closed
- Wednesday 09/09/2009 Online open add period for fall semester ends at 8pm.
- Thursday 09/10/2009 to Wednesday 09/16/2009 Students go to Undergraduate office, A212 Wells Hall for Mathematics enrollment changes. (late adds, drop to lower course, section changes)

- Wednesday 09/16/2009 Last day to late add a course or change sections within a course. Last day to drop to a lower level course.
- Monday 09/28/2009 End of 100% Tuition Refund
- Wednesday 10/21/2009 Middle of Semester. Last day to drop a course without a grade being reported.
- Thursday 11/26/2009 to Friday 11/27/2009 Thanksgiving Break
- Friday 12/11/2009 Last day of classes.

Getting Help: Help with the class material can be provided at:

- my office, during my office hours or by appointment.
- the MSU Math Department Learning Center which is located on the first floor (A-wing) of Wells Hall. Go to the window by the elevators in the lobby of the A-Wing for directions.

Here is the schedule of the Learning Center for Fall 2009:

Sunday: 4:00 p.m. - 9:50 p.m.

Monday : 10:10 a.m. - 4:00 p.m. and 6:20 p.m. to 9:50 p.m.

Tuesday: 10:10 a.m. - 4:00 p.m. and 6:20 p.m. to 9:50 p.m.

Wednesday: 10:10 a.m. - 4:00 p.m. and 6:20 p.m. to 9:50 p.m.

Thursday: 10:10 a.m. - 4:00 p.m. and 6:20 p.m. to 9:50 p.m.

Friday: 10:10 a.m. - 1:40 p.m.

Academic Dishonesty: The University's policy concerning academic integrity is covered by the Spartan Life handbook in the General Student Regulations section. For relating information, please consult the handbook or visit the Spartan Life web sites at

<http://www.vps.msu.edu/SpLife/reg3.htm> and

<http://www.vps.msu.edu/Splife/rule32.htm>

Material to be covered and suggested homework problems

Chapter 2.

2.1: 1,3, 4, 5, 6, 23, 25-30, 32, 33.

2.2: 3, 5, 7, 12, 15, 17, 18, 19, 21, 24, 27, 29, 30, 37, 43, 45, 46, 50.

2.3: Read only to "Using the Definition to prove Theorems".

2.4: 1, 3, 9, 11, 15, 17, 18, 21, 23, 25, 26, 29, 31, 32, 33, 34, 35, 37, 42, 43, 46, 47, 49, 51, 53, 54, 57, 58, 59.

2.5: 1, 3, 4, 5, 6, 13, 15, 16, 20, 25, 26,27, 29, 30, 35, 36, 45, 46, 48.

2.6: 1, 3, 4, 5, 6, 13, 15, 16, 20, 25, 26, 27, 29, 30, 35, 36, 45, 46.

Chapter 3.

- 3.1: 1,2, 3, 4, 7, 9, 10,, 13, 15, 16, 17, 19, 21, 22, 25-27
- 3.2: 5, 7, 9, 17, 19, 20, 21, 22, 25, 27, 28, 33, 35, 36.
- 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, 45, 49, 52, 55, 67, 69, 70, 73, 79.
- 3.6: Read to “Rational powers of differential equations”. 1, 3, 4, 7, 8, 9, 10-14,, 19, 21, 23.
- 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 cubic root of 28.

Chapter 4.

- 4.1: 1-4, 7, 9, 11, 13, 15, 17, 21, 25, 26, 29, 30, 31, 32, 34.
- 4.2: 3, 14, 15, 16, 23, 17, 28, 29, 31, 33, 36, 45, 51, 55.
- 4.3: 1,3, 4, 7, 8, 9, 12, 15, 21, 24, 25, 27, 29, 33, 43, 45.
- 4.4: 1, 3, 4, 7, 11, 15, 18, 19, 23, 27, 29, 33, 41, 35, 43, 49, 50, 70, 76.
- 4.5: 1, 3, 4, 5, 6, 8, 10, 11, 13, 15, 17, 18, 23, 27, 33, 43.
- 4.6: 5, 7, 8, 10, 11, 15, 18, 22, 23.
- 4.7: 1, 3, 4, 5.
- 4.8: 5, 7, 10, 11, 13, 17, 19, 25, 27, 31, 33, 35, 37, 38, 43, 57, 67, 69, 72, 79.

Chapter 5.

- 5.1: 1, 3, 9, 12, 13.
- 5.2: 1, 3, 7, 8, 19, 21, 23, 25, 26, 29, 31, 32, 35, 37.
- 5.3: 9, 10, 17, 19, 20, 55, 57, 58, 77.
- 5.4: 1, 4, 5, 7, 8, 11, 14, 15, 17, 19, 23, 25, 26, 27, 29, 30, 31, 33, 37.
- 5.5: 7, 10, 15, 17, 19, 23, 27, 31, 33, 32, 35, 36, 38, 41, 45, 53, 61.
- 5.6: 1, 3, 7, 10, 12, 13, 18, 19, 23, 32, 35, 38, 39, 43, 47, 48, 53, 59, 61, 71, 73.