

Math 251. Multi-variable Calculus, Fall 2006
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Lecture time and location: TTh6, 5:00-6:20pm. LSH-A142, Livingston campus

The textbook is James Stewart, Calculus: Early Transcendentals, 5th edition, Brooks/Cole, 1999, ISBN 0-534-39321-7.

We plan to cover the following sections in the textbook: 12.1-12.6, 13.1-13.4, 14.1-14.8, 15.1, 15.2, 15.4-15.9, 16.1-16.9

There will be **two in-class exams** during the semester: **Tuesday, Oct. 3, and Thursday, Nov. 16.**

Homework will be assigned each week and will be collected during recitation the next week. There will be Maple homework assignments every other week. There will also be quizzes every week.

The **final grade** of the course is calculated by:

20% first exam + 20% second exam + 20% quizzes, Maple and homework + 40% final

No calculators are allowed in exams and quizzes. Makeup exams and quizzes will only be given to students who have valid medical excuses.

One practical incentive for reading the book and doing the homework is that quite a few of the quiz and exam problems will be modelled on worked examples from the book or from assigned homework problems.

Important tips for getting a good grade:

Do the homework and prepare for the bi-weekly quizzes. There is a lot of material in Math 251. Many students find it difficult to catch up if they fall behind.

If you find that you've forgotten material from Calc I or Calc II, go back and look it up! Work a few exercises from the appropriate sections.

I curve the individual exams, but I calculate the final grades mechanically by adding up the scores from the tests, quizzes, workshops, and Maple labs. The only

way to get the grade you want is to earn the appropriate grades during the semester on tests, quizzes, and Maple labs.

The **homework assignment**

All section numbers refer to Stewart, Calculus: Early Transcendentals, 5th edition Section Problems Section Problems

- 12.1 3, 7, 9, 11, 17, 23, 31, 35, 37
- 12.2 11, 19, 21, 25, 29, 31, 43
- 12.3 1, 5, 7, 9, 17, 19, 25, 27, 37, 41, 51, 53
- 12.4 3, 9, 15, 31, 39, 45
- 12.5 3, 13, 17, 19, 25, 33, 35, 37, 39, 47, 53, 59
- 12.6 21, 23, 25, 27
- 12.7 7, 21, 29, 35, 37, 39, 43, 55
- 13.1 1, 11, 19, 21, 23, 25
- 13.2 5, 11, 17, 23, 31, 39, 47
- 13.3 3, 11, 13, 19, 23, 27, 39
- 13.4 13, 21, 25, 35
- 14.1 3, 5, 9, 27, 28, 43, 45, 53, 55, 57, 59
- 14.2 3, 7, 13, 27, 35, 37
- 14.3 3, 7, 9, 15, 17, 21, 41, 45, 47, 57, 67, 71, 83
- 14.4 5, 11, 19, 23, 33 16.6 1, 3, 19, 21, 31, 45
- 14.5 3, 7, 17, 25, 29, 39, 43, 45
- 14.6 1, 4, 9, 13, 21, 31, 33, 35, 41
- 14.7 3, 7, 13, 39, 41, 43
- 14.8 3, 5, 9, 19
- 15.1 8, 13
- 15.2 1, 9, 17, 23, 29
- 15.3 1, 5, 7, 13, 17, 21, 37, 41, 43
- 15.4 5, 9, 17, 21, 23, 25, 31
- 15.6 1, 3, 7
- 15.7 3, 9, 13, 17, 19, 25, 31, 35
- 15.8 1, 3, 7, 13, 17, 21, 29, 33, 35
- 16.1 1, 5, 11, 13, 17, 21, 29. 33
- 16.2 1, 5, 15, 17, 19, 21, 31, 37
- 16.3 7, 9, 13, 15, 19, 23, 29, 31, 33
- 16.4 3, 9, 11, 15, 17, 19
- 16.5 3, 5, 13, 15, 25
- 16.6 1, 3, 19, 21, 31, 45
- 16.7 5, 7, 11, 19, 23, 39
- 16.8 3, 5, 7, 9, 13, 15
- 16.9 3, 7, 11, 15, 27