

## Math 241: Calculus III – Fall 2008

**Instructor:** Heather Finotti  
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**Office Hours:** see website

**Course Web Page:** <http://www.math.utk.edu/~heather/241Math.html>

**Textbook:** Calculus: Concepts and Contexts (edition 3E); James Stewart (author)

**Lectures:** TR 5:45-7:35 in Ayres 314 (Section 4)

**Midterms:** Sept 23, Nov 6

**Final:** Dec 4, 7:15-9:15pm

**Grade:** 25% for homework quizzes, 25% for each midterm, 25% for the final.  
**Note the weight of the homework.** If your final exam grade is higher than your lowest midterm grade, your lowest midterm grade will be replaced with the average of the final and the grade itself.

**Grading Scale** 100-93 A, 92-90 A-, 89-87 B+, 86-83 B, 82-80 B-, 79-77 C+, 76-73 C, 72-70 C-

### Course Information

In this course you will be introduced to calculus in three (or more) dimensions. It is very important that you already know the material from Calculus I and II as this course will build on the material from these previous courses, and I will assume that you are **comfortable** with derivatives and integrals in all their glory. Please let me know if you feel that you may not have an adequate background for success in this course.

### Expectations Summary

1. Read the section that we will be covering before coming to class.
2. Active engagement during class - I **expect** you to ask questions during class, and that you are actively thinking about what is being presented. I expect that you will strive to understand, not merely memorize.
3. Homework quizzes will be on the done by dates listed on the website. However, I expect you to have completed the majority of your homework by any “Q & A” days, because these will be days that we will devote to your questions about the material. It is important that everyone do their part so that these days are not wasted.

4. Check email and website frequently ( at least 3 times a week, preferably daily). I will be using email to send out announcements about the course.

5. I expect that you will all put in the time and effort that **you** need in order to understand the material in the course. I also expect that if you are having difficulty you will take the responsibility to seek the help that you need until you understand. I am available in office hours and there is help available in the tutor center. You don't have to do this alone!

## Homeworks

Homeworks will be posted on the course homework page at

<http://www.math.utk.edu/~heather/241Homework.html>

No paper copy of the HW assignments will be distributed in class. **It is your responsibility to check the course page often!**

For each set of sections in a given week, there are around 30 assigned problems. You are expected to do all of these problems, and will be held responsible for the knowledge therein. From each of these sets, there will be a homework quiz, with the problems on the quiz taken directly from the homework. The quizzes will generally be two or three problems.

In all of your work - quizzes and exams - it is important that you understand my expectations. Here are some points I want to be sure you understand:

1. **All** of your work must be shown, with any relevant explanations written out between steps. No work shown will receive no credit. Your textbook is full of good examples of how to write out the solution to a problem.
2. Mathematics is a language, and a very precise one at that. Part of learning math is learning how to correctly communicate it. I will be deducting points from your homework (and exams) for incorrect use of notation or incomplete explanations. Keep this in mind when doing your homework, this is something that requires practice and shouldn't be left until the exam or quiz.
3. This precision isn't for my sake - by forcing yourself to be very careful and precise you can more easily discern what exactly you do and don't fully understand and can then ask questions and get help more easily. Also, one of the best ways to really learn something well is to explain it to someone else. This is one step in that direction. Besides, doing your work carefully means chances are you'll understand much more and remember it for much longer!

**Doing the HW is the most important part of learning math**, so the weight for the quizzes in the grading scheme is the weight of a single midterm, and I will assume that you will work hard on the homework sets. **The lowest two homework quiz scores will be dropped.** Your final homework grade will be computed by (sum total of your points on hw sets - lowest two)/total possible.

**There will be no makeup quizzes.** The reason that I will drop the two lowest scores is exactly to account for students needing to miss a due date for reasons of sickness, family emergency, etc. If you end up in a situation where a single illness is going to cause you to miss more than 2 quizzes, contact me.

**It is your responsibility to keep all your graded homeworks and midterms.** It is very important to have them in case there are any problems with your grade.

Definitely **come to my office hours** if you are having difficulties with the course – this is what they are for. Please try to come during my *scheduled* office hours, but feel free to email me to make an appointment if that would be impossible.

## E-Mails

**You will have to check your e-mail at least three times a week, preferably daily.** I will use e-mail (given to me by the registrar's office) to make announcements. I will assume that any message that I send via e-mail will be read in two days or less, and it will be considered an *official* communication.

Due to privacy issues, I cannot send grades via e-mail, unless you sign a document saying that you are aware that e-mails are not secure and not necessarily private. If you want to sign such a document, please let me know. Exam grades will generally be posted on the course blackboard site, however.

## Feedback

I have an *On-line Feedback Form* at

<http://www.math.utk.edu/~heather/php/feedback.html>

where you can anonymously send me your comments and suggestions. I will consider your comments and try to do whatever I can to resolve possible problems before it is too late. So, please, feel free to use it whenever you have any constructive comments or suggestions. (In fact, I would greatly appreciate it.)

## Course Structure, Reading Quizzes, and Section Summaries

The day-by-day course structure is online at <http://www.math.utk.edu/~heather/241Fall107Calendar.pdf>, and will be updated regularly. Here you can see what sections will be covered in lecture each day, when we will have days for you to ask questions, and when the exams will be held.

I will expect you to read over each section **before** coming to class. There will be 10 random **reading quizzes** held during the semester. These will not be quizzes that test understanding, rather they will only test whether or not you have read the section and have a familiarity with what we are going to cover that day.

In my experience and from research, I have seen that reading the section before coming to lecture can have an enormous effect on what you are able to get out of lecture and how much material you are able to retain over a long period of time. It is such a huge help to yourself to get into this habit, so this is my way of trying to help you all develop this wonderful habit. The quizzes will be worth one extra credit point each and will be added onto your final exam score at the end of the semester.

The same retention effect is true of summarizing material after you have been exposed to it. So, to help you develop this habit, you can choose 3 sections from each set of test material to write up a one page summary of. If you choose to summarize, say, section 10.1, then you will need to turn it in to me the day of the exam covering 10.1. **Summaries will not be accepted late.** Each summary is worth up to 3 extra credit points on your homework total. Refer to <http://www.math.utk.edu/~heather/SummaryGuidelines.pdf> for guidelines and expectations for how to write your summaries and a sample section summary. **Plagerism will not be tolerated.**

## Tutorial Center

There will be a few tutors on hand in the Math Tutorial Center (Ayres 322) that can help with questions from this course. Their hours are posted at <http://www.math.utk.edu/MTC>. However, I highly recommend coming to my office hours for help, especially if you are having trouble with more than a couple of the homework problems.

## Legal Issues

**Conduct.** All students should be familiar and maintain their “Academic Integrity”: from *Hill-topics 2007/2008* (<http://web.utk.edu/~homepage/hilltopics/HILLTOPICS2007-08.pdf>) pg. 40:

### *Academic Integrity*

*The responsibility for learning is an individual matter. Study, preparation and presentation should involve at all times the student’s own work, unless it has been clearly specified that work is to be a team effort. Academic honesty requires that all work presented be the student’s own work, not only on tests, but in themes, papers, homework, and class presentation. There is a clear distinction between learning new ideas and presenting them as facts or as answers, and presenting them as one’s own ideas. It is part of the learning process to incorporate the thoughts or ideas of others into one’s own mind and presentations with the purpose of learning and enlarging on personal boundaries of knowledge.*

You should also be familiar with the “Classroom Behavior Expectations” found at

<http://www.math.utk.edu/Undergraduate/undergrad/Expectations.pdf>.

**Disabilities.** Students with disabilities that need special accommodations should contact the “Office of Disability Services” (<http://ods.utk.edu/>) and bring me the appropriate letter/forms.

**Sexual Harassment and Discrimination.** For *Sexual Harassment* and *Discrimination* information, please visit the *Office of Equity and Diversity* at <http://oed.admin.utk.edu/> and check

[http://oed.admin.utk.edu/docs/complaint\\_sex\\_harass.pdf](http://oed.admin.utk.edu/docs/complaint_sex_harass.pdf) (Sexual Harassment)

<http://oed.admin.utk.edu/docs/DiscrimCompProc.pdf> (Discrimination)