

## COURSE GUIDE

### Math 114, Summer Session I, 2016

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Office hours: Monday-Thursday 3.15-4.15 pm  
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LECTURE : Mon, Tue, Wed, Thu 1-3.10 pm, in DRL 3C2

TEXTBOOK : *Thomas' Calculus Early Transcendentals*  
*Custom Edition for the University of Pennsylvania*  
Pearson 2012. Package ISBN : 978-1-256-82329-2

COURSE DESCRIPTION : Vectors, lines and planes in 3-dimensional space, Curves and their tangents, Functions of several variables, Vector-valued functions, Partial derivatives and applications, Double and triple integrals, Conic sections, Polar coordinates, Integrals and Vector Fields.

HOMEWORK : There will be homework problems uploaded on the course homepage and collected twice a week (on Mondays and Wednesdays) during the lecture. A homework handed in late (on the day it is due) will result in loss of 50% of the total points for that homework. Homework handed in later than that will get a score of zero. You may work together on the homework but the write-up should be done in your own words. Identical copies will result in a zero score for that homework for both students. The two lowest homework scores will be dropped.

QUIZZES : There will be a 10 minute in-class quiz every Tuesday and Thursday. There will be no make-up quizzes, but the two lowest quiz scores will be dropped.

EXAMS : There will be two midterms of 1 hour and 20 minutes each and one final exam of 2 hours. All exams will be in-class.

- Midterm 1 : Monday, June 6th
- Midterm 2 : Monday, June 20th
- Final Exam : Wednesday, June 29th

No calculators, cell phones or other electronic devices are allowed during the exams. You will be allowed to bring one 8.5" by 11", double-sided, handwritten sheet of notes to each test.

COURSE GRADE : The course grade will be computed as follows :

Midterm 1 : 20 %  
Midterm 2 : 20 %  
Final Exam : 35 %  
Homeworks : 15 %  
Quizzes : 10 %

The scores for quizzes, homeworks and exams will be posted on Canvas. Go to <https://canvas.upenn.edu> to login into the system. It is your responsibility to check correctness of the scores regularly. Possible mistakes need to be pointed out right away, not at the end of the course.

ACADEMIC INTEGRITY: Academic honesty is fundamental to our community. Violations of academic integrity may result in suspension or expulsion from the university. For details see [http://www.upenn.edu/academicintegrity/ai\\_codeofacademicintegrity.html](http://www.upenn.edu/academicintegrity/ai_codeofacademicintegrity.html)

GENERAL ADVICE & STUDY TIPS :

- The course material is large, and the course will be fast paced. Also there will be a LOT of new concepts introduced every day. So you are advised not to miss any of the classes.
- Do make use of the office hours. Ask questions. Don't wait till just before the exams.
- There are regular homeworks and quizzes to ensure that you are constantly working on understanding the concepts. Do not skip homeworks.
- Take good notes in the lectures, and read them carefully later on in the same day. Then close your notes and try to recall what you just read by writing down the important concepts or formulae that came up.
- It is important to read and learn new concepts, but in order to make your understanding firm, you need to solve lots of problems.
- Before attempting the homework problems, first take a look at the example problems in the textbook. This will give you an idea of *how* to approach a problem. A good way of learning a new skill is to watch someone else do it (in this case, the writers of the textbook).