MATH 114 Sec. 004

Instructor: Lechao Xiao
Lecture: MWF 11:00 - 11:50 AM, Room: TOWN 100
Office: DRL 3N4C
Email: xle@math.upenn.edu
Office Hours: Monday 3-4pm, Wednesday 4-5pm or by appointment.

Course Website: I will use Canvas:https://canvas.upenn.edu to make announcements, post grades for HW, quizzes and exams.

Textbook: *Thomas Calculus Early Transcendentals* Custom Edition for the University of Pennsylvania Pearson 2012. Please make sure your textbook comes with an **access code** for My Math Lab.

Course Description: Functions of several variables, vector-valued functions, partial derivatives and applications, double and triple integrals, conic sections, polar coordinates, vectors and vector calculus. Applications to physical sciences. Use of symbolic manipulation and graphics software in calculus. In particular, we will cover sections: 12.1-12.6, 11.6, 13.1-13.6, 14.1-14.8, 15.1-15.8, 11.3, 16.1-16.8.

Grading policy: Homework 20%+ Quizzes 15%+ Exams 65%

Homework: 20% of your final grade

(1) 10% online HW: We will use the online homework system called My Math Lab, the login link is: http://portal.mypearson.com/mypearson-login.jsp. The course ID is: **xiao92785**. An access code comes with the purchase of the new text from the bookstore.

(2) 10% written HW: Handed in weekly at the beginning of lectures on Wednesday. It will be graded for completeness. The problems will be exam ready questions mostly taken from past final exams.The first one will be due on Wednesday Sep. 10th. We will not accept late homework, but I will drop everybody's lowest written homework score.

(3) Core problems. The core problems indicate the kind of basic problems you will need to be able to solve by hand. They also provide a guide to the basic level of difficulty to be expected on the final exam. You should work through these problems but they will not be graded.

Quizzes: You will have weekly quizzes during the last 10-15 minutes of recitation covering the previous week's materials. There will be no make up quizzes, but I will drop everybody's lowest quiz score. The first quiz will be in week 3.

Exams: 65% of your final grades. There will be two closed book in-class midterm exams (15% each) and a final (35%). The policy for all exams is that students are allowed to bring one 8.5" by 11" sheet of paper (both sides) of formulas. Calculators are not allowed on any exam. The final

exam will be cumulative (covers all material), common (all Math 114 students take the same exam) and take place on Friday December 12th, 9:00-11:00am.

1. Mid Exam 1: Sep 29th, Monday, in-class.

2. Mid Exam 2: Oct 31st, Friday, in-class.

3. Final Exam: Dec 12th, 9:00- 11:00am.

Students with Disabilities: Please dont hesitate in contacting SDS:
http://www.vpul.upenn.edu/lrc/sds/.

Code of Academic Integrity : The following is from the Universitys website on academic integrity "Since the University is an academic community, its fundamental purpose is the pursuit of knowledge. Essential to the success of this educational mission is a commitment to the principles of academic integrity. Every member of the University community is responsible for upholding the highest standards of honesty at all times. Students, as members of the community, are also responsible for adhering to the principles and spirit of the following Code of Academic Integrity found here http://www.upenn.edu/academicintegrity/ai_codeofacademicintegrity.html If a student is unsure whether his action(s) constitute a violation of the Code of Academic Integrity, then it is that students responsibility to consult with the instructor to clarify any ambiguities."

Help The math department and the university offer many avenues to get help with Calculus. Check out the main website for Math 114.

Study Math 114 is one of the most difficult under graduate courses – a lot more difficult than Math 104. You may expect at least 10 hours per week outside of class. The best way to master it is to solve lots lots of exercises, from the book, old exams and so on.