

MATH 101: Single Variable Calculus I Summer 2008 General Section

Instructor:	Shuijing Li	Time:	TTh 1 p.m. – 4 p.m.
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Goal: This course will introduce you to calculus, the foundation of mathematical analysis. We will spend time investigating both the main techniques of calculus (namely differentiation and integration) and their many applications. Over the semester, we will cover the first six chapters of the text. This course will serve as a large step in your mathematical maturity, as more will be expected of you than merely being able to get the right answer. You will be learning how to communicate mathematics to your peers; that is, how to effectively answer the question Why? when it arises. The course should prepare students for further study, and should provide the background necessary for Math 102.

Since this is a summer course, we will have only seven weeks to cover what is normally covered in fourteen or fifteen weeks during the regular school year. Therefore, students should be focused and willing to ask questions and actively learn the material. Attendance at each class lecture is critical.

Text: *Single Variable Calculus 6e: Early Transcendentals*, Edwards & Penney, Prentice-Hall, 2002.

Homework: As is true for most math courses, homework will be the most important method of learning the course materials. While the lectures will serve to introduce concepts and techniques, the only way of gaining an understanding and facility with mathematics is to actually work problems. The compressed schedule of the course means that students will be expected to spend a considerable amount of time outside of class on homework.

There will be one graded homework assignment per week, due on Tuesday at the beginning of class. Late homework will not be accepted. Homework will be graded for correctness and clarity, so please provide justification for each problem and write legibly. Students are encouraged to work together in solving homework problems, but each student must write up solutions independently.

Students should also read or at least skim the book before each class. You are also encouraged to work on the other problems in the book, and to see me in office hours if you have any questions on the homework or other materials.

Exams: There will be two midterm exams and a final exam. The first midterm will be on June 19, and the second will be on July 3. We will have a 3 hour in-class open notes final exam, due July 17 .

Grades: Grades will be based on homework, midterms, and the final exam, with the following point distributions:

Homework	30%
Midterm 1	20%
Midterm 2	20%
Final Exam	30%

Disability Support: It is the policy of Rice University that any student with a disability receive fair and equal treatment in this course. If you have a documented disability that requires academic adjustments or accommodations, please speak with me during the first week of class (preferably, as soon as possible). All discussions will remain confidential. Students with disabilities will also need to contact Disability Support Services in the Ley Student Center.