

Syllabus

Mathematics 2200, Calculus, Fall 2009

Professor: *Gordana Matić*

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Book: Calculus - Early Transcendentals - UGA custom version of the 7th Edition, by Edwards and Penney

Class time and location: MWF 1:25-2:15 in building #1001 (Chemistry) room #400

recitation section/time/day/building/room #

48-415	8:00A- 9:15A	T	1011	210
28-414	8:00A- 9:15A	T	1013	240
08-413	9:30A-10:45A	T	1013	240
98-412	9:30A-10:45A	T	1001	453

Teaching Assistants: Nickolas Castro and Grant Fiddymont

Office hour: M 12:20-1:10, W 2:30-3:20 or by appointment. See your TA's office hours for additional help. If you have any questions or concerns please contact me or your TA.

Study Hall: You can get help from the math department graduate students (best free tutors on campus) for free in the MATHEMATICS STUDY HALL Monday through Thursday 3:30-5:30 in room 221 in Boyd. You can find information about other services at http://www.math.uga.edu/about_us/student_services.html .

Pre-requisite and co-requisite: The prerequisite for this course is MATH 1113 or equivalent. All students are required to have a working knowledge of precalculus, including trigonometry.

Course Objectives and Outline: This is a first semester calculus course for non-science, non-engineering majors. The course has three hours of lectures and one hour of recitation per week. The objective of this course is for the students to learn about derivatives and their applications. We will cover Chapters 2,3, and 4 in the book. We will introduce the concept of limit and use it to calculate derivatives of basic functions, then learn techniques ("differential calculus") for calculating derivatives of complicated functions. As applications we will use derivatives to explain and calculate rates of change of various quantities. We will also learn how to find maxima and minima of functions, and use that in applications. At the end of the semester we will do a quick introduction to anti derivatives and initial value problems (the beginning of chapter 5) to give you a feel for the integral calculus - subject of Math 2210, as well as touch on section 8.3. on simple differential equations if we have time.

In Math 2200 my students are expected to work mostly without the use of calculators. Calculators can and will be used occasionally for harder numerical examples, and you are free to use them when doing homework if you get large cumbersome numbers you want to deal with quickly. However, on the tests and quizzes there will be no calculators allowed. Many calculators today can do many things I want you to be able to do yourself, and I do

not want to get into policing of various kinds of calculators students should/should not have during tests. The numbers you will need to deal with while doing the problems on tests will not be so bad that you would not be able to do the problems by hand quite easily, and would really need a calculator.

Homework: Homework will be assigned at each class meeting. It will usually not be collected, but quizzes will be given on the problems directly from the homework, or very similar to them.

In Class: Ask questions please. Many people find it intimidating to ask questions, but it is an important tool for learning- for the brave (and thus smart) one who asks, as well as for the others. If you do not understand something, usually there are other people in the class who do not either. It also helps me to do a better job of teaching. I do try to guess your questions in advance, and answer them before you ask, that is a part of my job as a teacher. But each class is different, and I can not guess all the questions. So please ask them.

Tests: There will be four midterms in class about equally spaced. I will announce the exact days a week in advance.

Tests will contain mostly problems just like the ones assigned for homework. To prepare for tests, it is recommended to review the material covered in the lectures, to read the relevant sections of the book, re-do the previous homework assignments and work out extra problems from the relevant sections of the book. You are encouraged to work together when preparing for tests. Explain the material to each other: it is common knowledge among academics that one never really learns something unless one has explained it to other people.

Grading: Quizzes will count for a total of 100 points, each midterm will be worth 100, the final exam will be 250 points for a total of 750 possible points. The Final Exam will be comprehensive and cover all the material in the course. I will replace the lowest of the four test scores by the score on the final (scaled down to 100) if it is higher.

A missed test cannot be made up . If you miss one test, the 0 on that test will be counted as the lowest score and replaced by the scaled final score.

The grades will be assigned on approximately the scale : 92-100 A; 89-91 A-; 87-88 B+; 82-86 B; 79-81 B-; 77-78 C+; 72-76 C; 69-71 C-; 60-68 D ; 60 F.

Academic honesty: As stated in the Undergraduate Bulletin: "All students must comply with an appropriate and sound academic honesty policy and code of honest behavior". The University's academic honesty policy can be consulted on the world wide web at <http://www.uga.edu/~vpaa/polproc/ahpol/main.html> .

During the tests for this course, the use of any kind of student-to-student assistance, any table or list of formulae, numbers, theorems or mathematical statements (unless explicitly approved by me), any calculator, computer or electronic device is prohibited and would constitute a violation of the University academic honesty policy.

Statement: : This course syllabus provides a general plan for the course; deviations may be necessary.