

# Math 130 – Calculus I With Review (Part I)

**Term: Spring 2011**

**Professor: Erich Friedman**

**About the course:** We will meet every MWF 11:00 – 11:50 and T 11:30 – 12:20 in Elizabeth 311. This course will essentially cover the first 5 chapters of the text *Single Variable Calculus (Early Transcendentals)* by Stewart. In this course, we will review the algebra concepts needed to study calculus, including Written, Algebraic, Numerical, and Graphical (WANG) representations of functions. Then we will develop the main ideas of calculus: the derivative and the integral. We will learn what a derivative is, how to find them quickly, how to use them to solve applications from many different sciences, and how to undo them. You will be expected to understand why calculus works, as well as how to do the calculations involved. The development of calculus some 350 years ago was the greatest mathematical achievement in history. I hope you enjoy discovering it with me.

**About me:** My e-mail is [efriedma@stetson.edu](mailto:efriedma@stetson.edu). My extension is x7552. My web page can be found at <http://www.stetson.edu/~efriedma/>. My office is Elizabeth 214-2. My office hours this semester are:

Monday	10:00 – 11:00
Tuesday	2:00 – 4:00
Wednesday	10:00 – 11:00
Friday	10:00 – 11:00

This means I am always in my office during these times, and you do not need an appointment. If you cannot make my regularly scheduled hours, let me know and we can set up another time to talk. You can always e-mail me, as I often read my e-mail in the evenings. Please come by if you need help, or if you just want to chat. I do not use Blackboard. You will soon see that my lecture style is informal. I will be calling you by your first names (or a nickname if you prefer), so please call me Erich.

**About you:** You should be somewhat comfortable with exponents, simplifying, factoring, and solving equations and inequalities. You should understand the concept of a function, and be comfortable with linear, quadratic, and rational functions. We will be reviewing this material, but the more you remember, the better off things will be.

You should read our textbook. You should keep up with the homework. You should ask questions in class or in office hours about homework problems you couldn't do. Attendance in this class is not mandatory, but do not expect me to help you if you do not help yourself. Please be respectful of both me and your classmates. This means coming to class on time and not socializing in class.

**About cell phones:** It is polite to turn off your phones while in class. If one goes off in class, for any reason, it's mine for the rest of the day. You are not permitted to use cell phones as calculators.

**About the math department:** I am usually available to answer your questions, in and out of class, but the math department offers several additional ways to get help. Much of the day, a free math tutor can be found in the math office, Elizabeth 211. Also, the math secretary has a list of paid tutors available at other times. There is also a math clinic which runs every MTWR afternoons and evenings in Elizabeth 209. Please seek help as soon as you fall behind.

**About calculators:** Use of a graphing calculator is encouraged in this course. You will need a calculator for the tests, and you are not allowed to share. I will be using a TI-84 in class, but you can use any calculator as long as you know how to use it and it doesn't do calculus for you. You are responsible for knowing how your calculator works, and I do not offer calculator help the day of a quiz or test.

**About the honor code:** Stetson has an honor code. You are not only expected to do your own work, but to tell me if another student is not. The punishment for cheating is an F in the course.

### **About your grade:**

- **Homework** will not be collected, but I will answer some questions in class as time permits. Only odd numbered homework problems are assigned, and the answers are in the back of the book so you can check your work. These problems are designed to help you prepare for the tests, though the tests will not be exact copies of the homework. I encourage you to work together on the homework problems. You should do as much or as little homework as you need, but the leading cause of doing poorly in this course is not doing enough homework.
- **Quizzes** will be given on the 5 dates shown on the syllabus. Each quiz will be approximately 35 minutes long, consist of one page, and will cover only the most recent material. Some quizzes will only be on precalculus material. Each quiz is worth 50 points.
- **Tests** will be given on the 4 dates shown on the syllabus. The tests will mostly test calculus material. Please check your schedule now to see that there are no conflicts. If you are going to miss a quiz or test, please arrange something with me beforehand. If you miss a quiz or test without telling me beforehand, you will lose 10% of your grade per day, no exceptions. On the quizzes and tests, you will be expected to show your work and explain your answers. Each test is worth 100 points.
- **The Final Exam** is comprehensive and is worth 200 points. There are 850 points total. There is no extra credit available.