Math 131 – Calculus I With Review (Part II)

Term: Fall 2011 Professor: Erich Friedman

About the course: We will meet every MTWF 9:00 – 9:50 in Elizabeth 311. This course essentially covers the first 5 chapters of the calculus text *Single Variable Calculus (Early Transcendentals)* by Stewart, together with chapters 4-6 of the precalculus text *Precalculus*, 7$^{\text{th}}$ edition, by Sullivan. In this course, we will review exponential, logarithmic, and trigonometric functions, and then extend what calculus you learned in part I of this course to these new functions. At the end of the course, we also study some harder theory of calculus that was postponed until this course. 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 continuing to discover it with me.

About me: My e-mail is `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, Tuesday, Wednesday, and Friday 10:00–11:30. 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 usually 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. You should understand the concepts of a function and its graph, and be comfortable with linear, quadratic, and rational functions. You should remember the calculus we studied in part I of this class, including why derivatives are important, how to calculate them, how to use them to find extrema, graph a function, or relate two rates together, and how to undo them.

It is all but impossible to learn calculus in the 56 hours we meet as a class. You should read our textbooks. You should try the homework, and ask questions (either in class or in office hours) about homework problems you couldn't do. Attendance in this class is not mandatory, but you will not do well if you do not.. 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. You are not permitted to use cell phones for any reasons, including as calculators. If one rings in class, for any reason, it's mine for the rest of the day.

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. Also, the secretary in the math office, Elizabeth 211, has a list of paid tutors available at other times. There is also a math clinic which runs SuMTWTh evenings in Elizabeth 209 from 7-10 pm. 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. The honor council may hand down further penalties.

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 4 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. 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 800 points total. There is no extra credit available.