MATH 1823–Section 001   Honors Calculus I Information Sheet

This handout contains important information about Mathematics 1823, Section 001, for the Fall Semester 2000. It is your responsibility to acquaint yourself with all the information in this handout, and with any modifications to it that may be announced in class.

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Textbook: *Calculus,* (4th ed.) by James Stewart, Brooks/Cole, 1999.

Overview of Syllabus: In this course, we shall focus on Chapters 1 through 4 of the text. A detailed list of the chapter sections and dates can be found on the attached Class Schedule. Here is a brief summary of the key ideas in this course.

Calculus I begins with a treatment of real valued functions of a real variable. We shall meet lots of examples of functions, and learn how to visualize them. Then we will look at functions which are "well behaved" in some sense: the continuous functions.

We shall motivate and define the derivative of a function. There are two neat interpretations of the derivative.

- an analytic one, which involves rates of change, and

- a geometric one, which involves slopes of tangent lines to graphs.

These two interpretations are vital for a thorough understanding of the derivative, and in order to make sense of the second derivative test, and all the neat applications of differential calculus. These applications will include rates of change problems, optimization (max/min) problems, numerical applications (Newton's method), as well as a brief introduction to the real world uses of differential equations.

Lectures: You are expected to attend all lectures, and are responsible for all information given out during them. In particular, this includes any changes to the quiz/midterm dates or content. The Class Schedule gives a rough indication of what topics we hope to cover on specific days. Remember that this is just a guide. As the semester develops, we may deviate slightly from this schedule. As in any course, you should try to read the relevant sections of the textbook **before** attending lectures.

Grading Scheme: Grades will be assigned by weighting the totals from your Homeworks, Quizzes, Midterms, and Final Examination as follows:

Homeworks	15%
Quizzes	6%
Midterm Total	54%
Final Examination	25%

Here is the grading scale used in the course.

$$A \quad 85 - 100\%; \quad B \quad 70 - 84\%; \quad C \quad 55 - 69\%; \quad D \quad 40 - 54\%; \quad F \quad 0 - 39\%.$$

Here is a detailed description of each of the components listed above.

Homework: Homework will be due at the **start** of class on Mondays. Homework assignments can be found on the Homework Sheets which will be posted on the web page as the semester progresses. Minor modifications to the homework sheets may be announced in class during the semester.

You are responsible for ensuring that your homework gets turned in on time. Late homework upsets the grading process and is unfair to other students, and so will **not** be accepted. This includes homework that you *"have done, but forgot to bring into class"*.

The homework assignments are there to provide you with a **minimum** level of exposure to the materials outside of class time. You will need to do many more problems before you feel comfortable with the concepts involved. Take it from experience (of generations of students!) that the way to succeed in a math course is to work (and understand) a large number of problems.

It is important to work hard at the homeworks for several reasons. One, the homeworks are worth 15% of the course total. A high score on the homeworks takes off some of the pressure during the midterms and the final. For example, if you're hoping for a B grade overall, then an A average on the homeworks could offset a "bad day" on one midterm exam. Two, making sure that you understand the the homeworks is the best way to learn the course material. This is a lot more effective in the long run and a lot less stressful than the usual method of cramming before exams. You should make sure that you **understand** what you're doing on the homeworks, and that you understand where you went wrong on specific problems. It's not enough to just copy down answers from solutions manuals or from other students.

Extra Homeworks: In addition to the usual homeworks, there will be a number of more challenging problems/projects assigned throughout the year. The total score for these projects will count as your third Midterm. The final "extra assignment" will also be due on the date of the third Midterm.

Quizzes: Three 10-minute Quizzes are held in class during regular lecture times on the following dates:

Quiz 1: Friday, September 8.

Quiz 2: Wednesday, October 11.

Quiz 3: Wednesday, November 15.

Midterms: There are three midterms, the first two of which are held during regular lecture times. They are held on (due on in the case of Midterm III) the following dates:

Midterm 1: Monday, September 25.

Midterm 2: Friday, October 30.

Midterm 3: Friday, December 1.

Final Examination: The final examination is cumulative. It is scheduled for Monday, December 11, 8:00am–10:00am in PHSC 119.

Taking Examinations: Here are a few notes on taking Examinations.

- I will hold extra Office Hours and schedule Review Sessions before the Midterms and Final Examinations. You are strongly encouraged to attend the Review Sessions, and to attend Office Hours regularly.

- You cannot use calculators/computers, books or any type of notes during the examinations.

- All examinations must be taken at scheduled times, except in *very extreme circumstances.* So be careful not to make travel arrangements that conflict with examination times. If you cannot take an examination at a scheduled time, you should contact me *well in advance of the test time.* Otherwise, an absence at an exam will result in a score of zero.

Policy on W/I Grades: Until September 1 there is no record of grade for dropped courses. From September 5 through September 29, you may withdraw and receive a W grade, *no matter what scores you have so far achieved.* From October 2 through October 27 you will need my permission to withdraw. From October 30 on, University regulations specify that you may withdraw only with the permission of the Dean.

Students who are failing the course should **not** expect to be able to receive an I grade in place of an F. I will only consider giving an I grade if the student is already maintaining a passing grade in the course, has completed most of the work in the course (for example, all but the final examination), and can demonstrate that they are unable to complete the work at this time due to circumstances beyond their control.

Academic misconduct: The following is taken from the University Academic Misconduct Code. *It is the responsibility of each instructor and each student to be familiar with the definitions, policies, and procedures concerning academic misconduct.*

Cases of academic misconduct are inexcusable. Don't do it. All cases of academic misconduct will be reported to the Dean of Arts and Sciences for adjudication.

Accommodation of Disabilities: Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible to discuss the accommodations necessary to facilitate his or her educational opportunity and ensure his or her full participation in the course.