Course Information
Math 10240: Principles of Calculus, Summer 2007

Meeting time: M–F 1:25–3:05

Room: DeBartolo 336

Instructor: Don Brower

Office: Hurley 289

email: dbrower@nd.edu

Webpage: `www.nd.edu/~dbrower/`

Office Hours: M 3:30–4:30. I'm also usually in my office at this time T–F. Feel free to make an appointment for a different time or to stop by my office any time the door is open.

Textbook: *Calculus: Ideas and Applications* by Himonas and Howard. This book is required for the course, and most of the homework assignments will come directly from the book. It is available for purchase at the Hammes bookstore or online. We will cover much of chapters 0–5.

Calculators: A calculator will be necessary for some of the homework problems. A basic scientific calculator is all that is needed. A graphing calculator can be nice sometimes, but isn't required. Calculators may or may not be permitted on the exams. I will let you know before each exam if a calculator is allowed or not.

Objectives

This course will be an introduction to using calculus to reason about functions on the real numbers. It will cover limits, continuity, the derivative, uses of the derivative, and the basics of integration. The focus will be just as much on understanding mathematical symbols and formulas as it will be on the basic techniques required to use calculus in applications.

Grades

Grades will be assigned based on 500 points distributed in the following way:

Exam 1	100 points
Exam 2	100 points
Exam 3 (Final)	100 points
Quizzes, Activities	100 points
Homework and everything else	100 points

Over the semester the total value of all quizzes and activities will probably be more than 100 points, in which case the total value of the quizzes and activities will be scaled to be out of 100 when calculating the final scores. Ditto for homework and everything else.

Exams

There will be three in-class exams, with the last one being the final. The dates for the three exams are

> Tuesday, July 3
> Friday, July 20
> Friday, August 3.

An unexcused absence from any exam will result in a grade of zero for it. If you are absent with a valid excuse, you will be given a make-up test at a later date. Only very special situations will be considered for an excused absence from an exam. The exams will given under the honor code, as found in du Lac (see `http://orlh.nd.edu/dulac/` for the online version).

Homework

Homework will be assigned daily, and will be due the next day. Homework should be written neatly and stapled if necessary. I may not collect homework everyday, but if I do collect it late homework will not be accepted; however, the three lowest homework grades will be dropped.

I encourage you to collaborate on your homework; however, you will learn little to nothing if you simply copy another student's work (which is an honor code violation anyway). Even if you work in groups, I require everyone to hand in his or her own homework.

Activities

Sometimes there will be an in-class assignment pertaining to the lecture material. The nature of the activity will vary, but in every case I expect you to work on it in class, either alone or in a group, and to ask questions. Each person should turn in the activity at the end of class. Provided that you put effort into the activity and made reasonable progress, you will receive full credit. The purpose of the activities is to give you a chance to work with the material covered in lecture with me nearby in case you get stuck or have questions.

Quizzes

There will be quizzes throughout the semester. They will almost always be unannounced and will only cover material recently covered in class. They cannot be made up if you miss one. But, the lowest three quiz scores will be dropped.

Class Attendance

Attendance is mandatory for success in a math class, and I expect you to make it to class every day. This class is small, and I will notice if you are missing classes. Additionally, it has been my experience that students who come to my classes tend to do well on exams; whereas, students who miss do poorly. *Finally, according to school policy, if a first year student accumulates more than 3 absences in a course then, after due notification, the student can be given an F in the course.*

Participation and Feedback

I enjoy active participation in class: helping me through problems, asking questions, and correcting me when necessary. I hope that you feel comfortable enough to ask any questions you have during the lectures. Always let me know if you are confused with something I am doing or some way I am presenting the material. I cannot remedy the situation if you do not let me know that something is wrong.

Note: I really want you to feel like you understand all the material from this class. If you ever need to come in for extra help, you can always come to my office hours or make an appointment. Furthermore, you are welcome to stop by at any time unannounced and if I am not too busy, I will be more than happy to help you.