

Math 231 W3
Calculus II
Spring 2009

Instructor: Mike Barrus

Office hours: Mondays 1-2:30 PM, Thursdays 4-5 PM, and by appointment.

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Course webpage: <http://www.math.uiuc.edu/~mbarrus2/teaching.html>

Text: Smith and Minton, *Calculus: Early Transcendental Functions*, 3rd edition, McGraw-Hill. We will cover most of the material in Chapter 6, Section 7.1, and Chapters 8 and 9.

Grades for the course

You should be registered for both Math 231 (Calculus II) and Math 199 (Merit Workshop). You will receive a separate grade for both classes. Here are the grading criteria:

Math 231

Credit will be earned in the following categories (shown with their percentages of the final point total):

Midterm exams (3 total)	45 %
Quizzes	10 %
Homework	10 %
Project	10 %
Final exam	25 %

Here is a summary of each component:

Quizzes: Quizzes will be given every Friday, except on the Fridays immediately before an exam. Quizzes will usually consist of from 1 to 3 questions and will be given during the first 10 to 15 minutes of class (so it will be important for you to be on time). There will be 11 quizzes total; the lowest 2 scores will be dropped in calculating your grade. For this reason, quizzes may not be made up, so please plan to not miss any (including the one before Spring Break!).

Midterms: There will be three midterms, as shown below:

Exam	Date	Material covered
1	Monday, February 16	Chapter 6 and Section 7.1
2	Monday, March 16	Sections 8.1–8.5
3	Monday, April 20	Sections 8.6–8.8, 9.1–9.3

Each exam will be worth 15% of the final grade. Missed exams may be made up only with a note from the emergency dean, in the event of...well, an emergency. If you have a conflict with an exam (or quiz) date, let me know well in advance—as soon as you know about it.

Homework: Homework will consist of written assignments and assignments on McGraw-Hill's online homework system MathZone. Deadlines will be announced as each assignment is given out, though online homework will usually be due at 11 PM central time, and written homework will be turned in at the end of class on the due date.

Please complete each assignment as fully as possible, even if it means seeking help. You are strongly encouraged to ask questions of me and of your classmates or other people as you work through homework. However, the written work you turn in should be your own and should not be copied from a solutions guide or someone else's work. Furthermore, at all costs resist the temptation to use MathZone's built-in solutions as a crutch to get through your assignments; it's easy to do, but trust me on this—you will regret it when the final comes along.

Project: You are required to complete an individual project from the set of about 10 that will be offered during the semester. Projects will consist of a written portion and a brief one-on-one discussion (approximately 5 to 15 minutes) with the instructor. Projects will be due on Monday, April 27, though there may be some preliminary deadlines along the way to check on your progress, and the projects can (and should!) be completed and turned in at any time before the final deadline. More details will be given early in the semester.

Final exam: The final exam will be comprehensive. Our final exam is scheduled for **Tuesday, May 12, 2009, at 7-10 PM** in a location to be announced. More information on the final will be given later in the semester.

Math 199

Each student may earn up to 10 points for their performance in each Merit session. These points are assigned on the basis of attendance (3 points), preparation (3 points), and participation (4 points).

Attendance. Attendance is required and will be recorded according to the following policy:

- 0 to 5 minutes late: 0 to 3 points assigned for attendance.
- 5:01 to 15 minutes late: 0 points for attendance (and therefore 7 points maximum possible for that session).
- 15:01 to 30 minutes late: 0 points for attendance and 2 points maximum possible for participation (hence 5 points maximum possible for the day).
- Unexcused absence or more than 30 minutes late: 0 points for that session.

We will meet 43 times throughout the semester, so each day's points count for about 2.3% of the total. (Not much in and of itself, but it adds up quickly!) While illnesses may be excused with a doctor's note, and other circumstances may warrant some leniency, you should keep in mind that absences and even tardiness **will** hurt your grade. Please plan to be in class!

Preparation. A projected course schedule will be maintained on the course website and announced in class. Most days throughout the semester you will be given a reading assignment from the text, which will include a simple exercise from the book. You are expected to have completed the reading

assignment and worked the exercise before class. You will turn in the exercise (showing all your work) at the beginning of class on the day it is due. Your 3 preparation points will be awarded on (1) your turning in the problem and (2) its completeness and correctness.

It will also be important to have a book to consult during the class period. In order to avoid losing preparation points, please make sure each day that at least one person in your group has a textbook with them.

Participation. A large part of how the Merit program will benefit you comes from how you interact with the class. You are expected to contribute your ideas and insights as well as your questions. Please use this opportunity to its greatest advantage. Participation points will be based mainly on your getting up to the blackboard or whiteboard. I will pass out a sign-off sheet to each group at the beginning of class most days, and once you've gotten to a board to show some steps on a problem, or just to be a scribe for your group (which is perfectly okay), someone else from your group will sign the sheet, verifying your participation. It's an easy way to earn your 4 points each day, but it is your responsibility to make sure you get to the board and get a signature.

The grading scale

The following percentages will ensure you *at least* the corresponding letter grades in both Math 231 and Math 199:

93 or above:	A	83-86:	B	73-76:	C	63-67:	D
90-92:	A-	80-82:	B-	70-72:	C-	60-62:	D-
87-89:	B+	77-79:	C+	67-69:	D+	59 or below:	E

Please be aware, however, that while Math 231 grades may be curved up at the instructor's discretion, *Math 199 grades will not be curved.*

McGraw-Hill's MathZone

The publishers of our textbook have developed a collection of online study aids known as MathZone (www.mathzone.com). The website contains animated demonstrations of concepts and extra practice problems that give you immediate feedback on whether or not you're working the section's problems correctly. You will use MathZone to complete much of the semester's homework. If you've just bought your textbook new, it may have already come with a MathZone code. If not, MathZone codes may be ordered at bookstores or purchased online at MathZone's website. If you don't have an account from previous semesters, please create one (see the attached page for instructions) as soon possible. **The Section Code for our course is 6F8-C4-466.**

Besides homework, you're encouraged to use the "Self Study" feature in MathZone as a source of extra problems. Ideally, you should work LOTS of problems beyond those assigned in class. There's no way to learn calculus without practicing, and you'll probably find that the work you do during class is not enough to master the material. For that reason, please take advantage of MathZone's capabilities, and let me know if you have any feedback to give. If you run into trouble using MathZone, please call technical support at 1-800-331-5094.

A few words on calculators

Owning a calculator will not be necessary for this class. Their use is perfectly fine in your personal study—in fact, you may find that a graphing calculator or mathematical computer software package

(such as Maple, Mathematica, or Matlab) can be extremely helpful in helping you to visualize and understand topics we cover. At times I may encourage you to bring a calculator for use during a workshop; however, this is optional, and you will not need to have one to succeed in the class. Occasionally a homework assignment will require the use of a calculator. When this happens, I will provide you with links to online calculators that will suffice for the assignment. Please note, though, that the use of any sort of calculator will *not* be allowed on any quiz, midterm, or the final; this is so that I can properly assess the skills that *you* have.

The obligatory statement on academic integrity and other issues

Complete honesty with yourself and with me is vital in successfully learning a challenging subject like calculus. Because of this, cheating will not be tolerated. A student found cheating on an assignment, quiz, or exam is subject to receiving a score of 0 on that item and possibly other penalties as outlined in the University Student Code. If you have any questions about what constitutes cheating, please see me before it becomes an issue.

In general, students are required to conduct themselves in compliance with all policies in the University's Student Code, which can be found online at

<http://www.admin.uiuc.edu/policy/code/index.html>.

If any problems arise, I will follow the procedures described there.