

# Math 2200: Differential Calculus

Emilie Wiesner     Spring 2006

## About the Course

In this class we will study the derivative and several of its applications. Course topics include

- tangent lines, limits, and continuity
- introduction to the derivative
- applications of the derivative
- derivatives of transcendental functions
- the Mean Value Theorem and its applications
- curve sketching using the derivative
- anti-derivatives

The course material will be taken from Chapters 2-5 of **Calculus with Analytic Geometry 6e “Early Transcendentals Versions”** (by Edwards and Penney, Prentice Hall 2003).

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## My Contact Information

Instructor: Dr. Emilie Wiesner  
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Office Hours: Mondays 10-11AM, Wednesdays 2:30-3:30, Thursdays 9-10AM, and by appointment

Email Contact: Please feel free to email me. I will respond to email **within one business day**.

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## Expectations and Assignments

Attendance: Regular attendance and active participation in class is essential to doing well in the course.

Daily Homework: The daily homework assignments are designed to keep you thinking about the material we are covering and to help both you and me gauge your understanding of the material. These assignments should be fairly quick for you to complete (~ 20 minutes), and they will be graded with a check if

successfully\* completed. Daily homework is due at the beginning of the class after it is assigned. Late homework will not be accepted.

**Suggested Homework:** In addition to the daily homework assignments, I will assign reading and a list of suggested problems from the text. The reading will provide a different perspective on what we do in class. The problems will give you an opportunity to further develop your understanding of the material.

**Quizzes:** There will be 6 quizzes given throughout the semester. Your lowest quiz grade will be dropped, and you will not be able to make up any quizzes. See the assignment calendar (on the course website) for quiz dates.

**Midterms:** There will be 2 midterm exams. You can make up a midterm exam only if you provide a documented and justified reason for missing the exam. See the assignment calendar (on the course website) for midterm exam dates.

**Final Exam:** There will be a cumulative final exam given in this course. Your final exam is scheduled for May 3, 8-11AM.

**Course Evaluation:** Evaluations for this course are done online at the end of the semester. The evaluations are completely anonymous and I will not see them until after I have submitted your final grades. I will receive a list of students who have completed the evaluation—but not your comments—at the end of the semester so that I can factor this into your grade.

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### **Academic Honesty**

I encourage you to discuss the daily homework assignments with your classmates. However, you should write your homework on your own and in your own words.

All work for this course must meet the standards contained in “A Culture of Honesty.” You are responsible for informing yourself about those standards. More information about academic honesty can be found at <http://www.uga.edu/ovpi/honesty/acadhon.htm>.

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### **Grades**

Your final grade for the course will be broken down by

- 10%: Daily Homework

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\* I will judge the homework successfully completed if your work shows that you have attempted the problem or answered the question thoughtfully. It is not necessary that you correctly solve the problem/answer the question to receive credit for daily homework.

- 30%: Quizzes
- 28%: Midterm Exams
- 30% Final Exam
- 2%: Completion of Course Evaluation

Daily homework and quiz scores correspond to letter grades as follows:

	Daily Homework	Quizzes
A	95% of assignments are completed and receive a check	90% quiz average
B	85% of assignments are completed and receive a check	80% quiz average
C	75% of assignments are completed and receive a check	70% quiz average
D	50% of assignments are completed and receive a check	50% quiz average

I will determine a curve for each of the exams individually.

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This syllabus is a general plan for the course. However, deviations may be necessary and will be announced to the class.