

# MATH 2200 Analytic Geometry and Calculus Course Syllabus

## **Instructor Information**

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## **Scheduled Meetings:**

MWF 10:10 – 11 am

Aderhold Hall Rm 317

## **Office Hours:**

Mondays 11:15-12:30

Thursdays 12:30-1:30

Appointments by request

## **Required Text:**

Edwards & Penney, Calculus with Analytic Geometry, 6ed. "Early Transcendentals Version", Prentice Hall 2003

## **Course Format**

Calculus is one of the greatest creations of science. Ever since Newton and Leibniz introduced the subject in the 1600s, Calculus has been studied and applied successfully to a broad spectrum of real world problems. The objective of this course is to study the theory of the derivative and its applications. In order to prosper in this course, you will need a working knowledge of major topics of MATH 1113, not just memorization of equations and techniques.

This course will cover:

- I. **Chapter Two – Prelude to Calculus** (2 weeks)
- II. **Chapter Three – The derivative and rules for differentiation** (3 weeks)
- III. **Chapter Three - Applications of the derivative; derivatives of transcendental functions** (3 weeks)
- IV. **Chapter Four – Mean Value Theorem and applications** (2 weeks)
- V. **Chapter Four – Curve Sketching** (1 ½ weeks)
- VI. **Sections 5.2 and 8.3 – Anti-derivatives** (1 ½ weeks)

## **Grade Distribution and Exam Schedule:**

3 Exams (Tentatively September 15, October 20, and November 22): 20% each

Homework/Quiz Avg: 15%

Final exam: 25%

## **Attendance Policy:**

You do not have to attend class, but I will never repeat a lecture. I will try to give you one lecture's notice of a quiz.

## **Make-up Policy:**

If you are planning on missing a test or quiz, you must make it up ahead of time. If an emergency arises, and you miss a test or quiz, get your absence approved through Student Affairs. I will then make an alternate test or quiz for you.

### **Academic Honesty:**

Do not cheat. Visit the following website for consequences of cheating:  
[www.uga.edu/ovpi/academic\\_honesty/hon\\_prom.htm](http://www.uga.edu/ovpi/academic_honesty/hon_prom.htm)

### **Important Dates:**

Add/Drop: August 19-26

Labor Day: September 6

Midpoint Withdrawal Deadline: October 15

Fall Break: October 28-29

Thanksgiving Holidays: November 24-26

Classes End: December 9

### **The Rules:**

1. Do not hand in messy or illegible work.
2. No slanted lines when writing fractions.
3. Simplify when obvious. For example, do not give “four sixths” or “square root of nine” as an answer.
4. Rationalize all denominators.
5. No answers given in degrees if problem is stated in radians (or vice versa).
6. No answers given as a decimal if there are fractions stated in the problem (vice versa is acceptable). When in doubt, give a fraction as an answer. Fractions are the best answer since they are never rounded.
7. Do not be afraid to leave Pi, roots, and such in your final answer. “Three Pi over two” or “two root three” are much better answers than “4.712388...” or “3.464101...”
8. Combine all like terms.
- 9. Do not be afraid to ask questions in class. We are all learning here!**

The guidelines above will help your mathematical maturity. You should also note that this list is ever expanding. In this class, we will put emphasis on reading, writing, speaking, and practicing mathematics. Calculus is very powerful, and its theorems are deep and meaningful. Mathematicians at every level find themselves referring back to the principals of calculus. My hope is to give you an awesome start to a very rich subject.