## Math 2310H, Spring 2005

Professor Joe Fu Office: 407 or 453 Boyd Phone: 542-2564 or 542-2652 Email: fu@math.uga.edu Office hours: MWF 1–2 pm in 407 Boyd, or by appointment. You are welcome to drop by at other times too, but I can't guarantee that I won't be busy with other things.

Text: Edwards and Penney, Calculus: Early Transcendentals Version, 6th edition.

## Course plan:

Week 1 (Jan. 10–14): Definition of the integral (5.3, 5.4)

Weeks 2, 3 (Jan. 19–28): The fundamental theorem of calculus (5.5–5.7)

Weeks 4–7 (Jan. 31– Feb. 25): Applications of the integral (5.8–6.5)

Week 8 (Feb. 28-Mar. 4) : Review, Test 1, introduction to techniques of integration

Week 9 (Mar. 7–11): The logarithm as an integral; integrals of inverse trigonometric functions (6.7, 6.8)

Week 10 (Mar. 21–25): Integration by parts; integral tables (7.2,7.3)

Week 11 (Mar. 28–Apr. 1): Trigonometric integrals (7.4, 7.6)

Week 12 (Apr. 4–8): Integration of rational functions (7.5, 7.7)

Week 13 (Apr. 11–15): Review, **Test 2**, introduction to differential equations/sequences and series Weeks 14–15 (Apr. 18–May 2): Selected topics from differential equations (Chapter 8) and/or infinite series (Chapter 10)

Reading Day and Exam week (May 3–6): review sessions to be arranged

Monday, May 9, 12 noon- 3 pm: Final exam

## Other important dates:

1. The midpoint of the semester— the last day you may drop the course and receive a grade of W— is **Tuesday, March 8**. Except in unusual circumstances, any student who drops the course after that point will receive a grade of WF.

2. The week of March 14 is Spring Break.

Grading policy: Grades will be assigned using the formula:

Homework: 20% Class participation and effort: 10 % Hour tests: 20 % each Final exam: 30 %

**Homework:** I intend to continue the WebWork homework system used in Math 2300 in the Fall. WebWork assignments will be due weekly, beginning Week 2. For students unfamiliar with it, I will give more information then.

For the first week there will be traditional pen and paper homework. **First assignment, due Wednesday Jan. 12:** Write a brief (maximum one page) essay about yourself and your academic interests. Tell why you are taking this course and what you hope to get from it. Reveal how much calculus you've taken before, and at what schools.

## Academic honesty

I expect all students to follow strict standards of honesty in all of their academic work.

On homework, collaboration among students is permitted, and even encouraged; however, all final submissions should reflect your own understanding and should include a list of all collaborators and other sources of help.