

Mathematics 2210
Integral Calculus
Spring 2006

Time. Tuesday/Thursday 9:30-10:45

Classroom. Boyd 302

Call Number. 80-199

Instructor. Clayton Petsche

Email. clayton@math.uga.edu

Office. Boyd 526

Office Hours. M/Tu/W 11:00-12:00, and by appointment

Text. *Calculus with Analytic Geometry*, 6th Edition, by Edwards & Penney

Course Website. <http://www.math.uga.edu/~clayton/spring06.html>

Topics. This class is about integral calculus for functions of one variable. We will study the definition of the definite integral in terms of Riemann sums, the relationship between antiderivatives and definite integrals, and various integration techniques including integration by parts, partial fractions, and trigonometric substitution. We will also look at applications to computing areas, volumes, arclengths, and work, as well as the solution of separable and linear differential equations and their applications.

Exams. We will have two in-class exams, on dates to be determined (I'll give adequate warning), and a final exam. At the end of the semester, I will replace your lowest in-class exam grade with your grade on the final exam, if it is to your benefit to do so. I will replace only one of your exam grades in this fashion, not both. If you have to miss an in-class exam, I'll need *advance notice and a written excuse from an authority figure such as a doctor or a University official*. If you miss an in-class exam without an excuse, this counts as a zero (and therefore your grade on the final exam will count toward this grade). The final exam is currently scheduled for Thursday, May 4, 8:00 - 11:00 am. You may not miss the final exam.

Homework. Homework will be assigned weekly, although I will not actually collect it. However, there will be.....

Homework Quizzes. At least once a week we will have a short quiz based entirely on that week's homework assignment. These quizzes will be easy for those students who have done their homework. At the end of the semester I will "drop" your lowest quiz grade. If you miss a quiz, this counts as a zero, and this will be your dropped quiz.

Grade Proportions. Homework Quizzes: 15%, Exam 1: 25%, Exam 2: 25%, Final Exam: 35% .

Final Grade Allocation. $90 \leq A \leq 100$, $80 \leq B < 90$, $70 \leq C < 80$, $60 \leq D < 70$, $0 \leq F < 60$. I may alter this scheme at the end of the semester, but only to your benefit.

A Word of Advice. In order to do well in my class, you must attempt to *attend every lecture and complete every homework assignment on time*. This is a challenging course, and the difficulties will multiply quickly for those who do not keep up with the material.

A Note on Academic Honesty. All academic work must meet the standards contained in "A Culture of Honesty." Students are responsible for informing themselves about those standards before performing any academic work. For more information see:

<http://www.uga.edu/ovpi/honesty/acadhon.htm>

Required Disclaimer. The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.