Math 410 **Advanced Calculus II** Fall 2000

The course

This sequel to Math 409 is devoted to multi-variable calculus: the theory of differentiation and integration of functions defined on $\mathbb{R}^2$ or on $\mathbb{R}^3$ or more generally on $\mathbb{R}^n$. The course covers the theory and application of partial differentiation, the theory and application of multiple integrals, and line and surface integrals.

Textbook The textbook is *Advanced Calculus*, second edition, by David V. Widder, Dover Publications, Inc., 1989. We will cover chapters 1, 4, 6, and 7.

Prerequisites The official prerequisites for this course are Math 222 (Linear Algebra) and Math 409. You should also have had a course like Math 221 or Math 251 that covers the elementary, computational aspects of multi-variable calculus.

Venue The course meets 9:35–10:50 on Tuesday and Thursday in room 164 of the Blocker building.

Home page The home page for the course is `http://www.math.tamu.edu/~harold.boas/courses/410-2000c/`.

The instructor

The best way to contact the instructor, Dr. Harold P. Boas, is via e-mail to `boas@math.tamu.edu`. Office hours are in 202 Milner Hall, 13:00–14:00 on Tuesday, Wednesday, and Thursday; and by appointment. The office telephone number is (979) 845-7269.

Grading

There will be examinations during class on Thursday, September 28 and Tuesday, October 31. The final examination will be 12:30–14:30 on Friday, December 8. Each of these three examinations will count for 25% of the course grade. Homework, projects, and in-class work will account for the remaining 25% of the course grade. Final letter grades will be based on the standard scale: you need an average of 90% for an A, 80% for a B, 70% for a C, 60% for a D.