Math 446 **Principles of Analysis I** Fall 2008

The course

This course covers the real numbers (their construction and properties); point-set topology in the setting of metric spaces; the concepts of convergence, continuity, connectedness, completeness, compactness, and category; and an introduction to spaces of functions.

Textbook The required textbook is *Real Analysis* by N. L. Carothers, Cambridge University Press, 1999, ISBN–13: 978–0521497565. The course covers approximately Chapters 1–11 of the textbook.

Prerequisite The prerequisite for this course is Math 409 (Advanced Calculus I). That course covers many of the same topics as Math 446, but in the particular setting of the real line rather than in the more abstract setting of metric spaces.

Venue The course meets 9:35–10:50 on Tuesday and Thursday in CE 222.

Web site `http://www.math.tamu.edu/~boas/courses/446-2008c/`

The two sections Section 500 is the regular section, and Section 200 is the honors section. The two sections meet together at the same time in the same room. There will be some special problems for the honors section on the homework assignments and on the examinations.

Exams and Grades

- The two mid-term exams are scheduled for Thursday 25 September and Thursday 30 October. Each of these exams counts for 25% of the course grade.
- The final examination, which has been scheduled by the Registrar for 12:30–14:30 on Friday 5 December, counts for 25% of the course grade.
- Homework counts for 25% of the course grade.

The instructor

The instructor is Dr. Harold P. Boas. Office hours are in 202 Milner Hall, 11:10–12:00, on Tuesday, Wednesday, and Thursday; also by appointment. Contact information: email `boas@tamu.edu`, office telephone 979–845–7269.

Other information

Americans with Disabilities Act
Statement from the Department of Student Life

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the office of Disability Services in Cain Hall (telephone 979–845–1637, web site `http://disability.tamu.edu/`).

Academic Integrity
Statement from the Aggie Honor System Office

The Aggie Honor Code states: "An Aggie does not lie, cheat or steal, or tolerate those who do." Information about the Honor Council Rules and Procedures may be found at the web site `http://www.tamu.edu/aggiehonor/`.