The course

This is a second course in the theory of functions of one complex variable. It covers the construction and approximation of holomorphic, entire, and meromorphic functions, including Mittag-Leffler’s theorem, the factorization theorems of Weierstrass and Hadamard, and the theorems of Runge and Mergelyan; the concept of simple connectivity; the theory of analytic continuation and the idea of a Riemann surface; Picard’s theorems; and applications to some problems in functional analysis and number theory.


Prerequisite  The prerequisite for this course is Math 617.

Venue  The course meets Monday, Wednesday, and Friday, 12:40–1:30 p.m., in BLOC 164.

Home page  The home page for the course is http://www.math.tamu.edu/~harold.boas/courses/618-2004a/.

The instructor

The instructor is Dr. Harold P. Boas. The email address is boas@tamu.edu and the telephone number is (979) 845-7269. The instructor’s office hours are held in 202 Milner Hall from 10:30 to 11:30 on Monday, Wednesday, and Friday; also by appointment.

Course requirements

In this course, there will be a variety of learning experiences, including in-class work, homework, projects, and a final examination (scheduled by the registrar for 10:30–12:30 on Monday, May 10). The grading scheme will be as follows: A = did most of the work well; B = did most of the work adequately; C = did minimal work; F = failed to complete a substantial amount of the required work.

January 21, 2004  Dr. Boas