

## The course

This course covers the elements of one-dimensional complex analysis: the complex numbers (their algebra, geometry, and topology); analytic functions of a complex variable (definition, examples, properties); integration in the complex plane, particularly Cauchy's integral formula and its consequences; infinite series of complex numbers and of complex variables, including Taylor series and Laurent series; the residue theorem and the computation of real integrals by complex methods; and conformal mapping.

**Textbook** The required textbook is *Complex Variables*, second edition, by Stephen D. Fisher, Dover Publications, ISBN-13: 978-0486406794; ISBN-10: 0486406792. The course covers most of Chapters 1–3.

**Prerequisites** The official prerequisite for this course is Math 221 (Several Variable Calculus).

**Venue** The course meets 11:30–12:20 on Monday, Wednesday, and Friday in ZACH 223C.

**Web site** <http://www.math.tamu.edu/~boas/courses/407-2008a/>

## Exams and Grades

- The two mid-term exams are scheduled for Friday 15 February and Friday 28 March. Each of these exams counts for 20% of the course grade.
- The cumulative final examination, which has been scheduled by the Registrar for 10:30–12:30 on Wednesday 7 May, counts for 20% of the course grade.
- Homework counts for 20% of the course grade.
- Quizzes count for 20% of the course grade.

## The instructor

The instructor is Dr. Harold P. Boas. Office hours are in 202 Milner Hall, 10:00-11:00 on Monday, Wednesday, and Friday; also by appointment. Contact information: email [boas@tamu.edu](mailto:boas@tamu.edu), office telephone 979-845-7269.

## **Academic Integrity Statement**

The Aggie Honor Code states: “An Aggie does not lie, cheat or steal, or tolerate those who do.” Consult the web site of the Aggie Honor System Office (AHSO) at <http://www.tamu.edu/aggiehonor/> for further information.

## **ADA Statement**

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 that 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/>).