

Complex VariablesI  
22m:118, Fall 2005

Instructor: Fred Goodman  
Office: 325G McLean Hall  
Phone: 335-0791  
Office Hours: To be arranged.

**Course goals:**

The goals of this course will be for you to develop a systematic knowledge of basic complex analysis.

**Textbook:**

Required: Stephen D. Fisher, Complex Variables, 2nd edition, Dover.

**Course plan:** We will follow the textbook, and cover as much of the material as the class can comfortably manage. If course participants have particular interest in certain applications, I would be happy to devote a portion of the class to those topics (after covering the basics). The table of contents of the course book can be viewed on the course web page.

**Homework:**

There will be about ten homework assignments. You may collaborate on homework (discussing mathematics with your peers is an important skill), but you must write your own solutions. In general your homework solutions should be literate; the point is to explain your method, not just to obtain an answer. A good criterion for an adequate explanation is the following: a person who knows about as much as you do, but who has not thought about the problem should be able to understand the solution by looking at your paper. That is, the person should be able to understand, without looking elsewhere, what is the problem, what is the idea behind your approach, and what are the details of your solution.

**Exams and grading:**

There will be one or two midterm exams on dates to be arranged. There will be a comprehensive final exam (Tuesday, December 13 at 9:45). Grades will take into account both homework and exams. I will weigh most heavily what you do best.

Course information will be regularly posted on my web page at [www.math.uiowa.edu/~goodman](http://www.math.uiowa.edu/~goodman).

**Attendance and absences:**

Regular attendance will be expected. However, if you must miss class, you will still be responsible for the material discussed in class. You are responsible for announcements made in class, which may concern changes in the assignments, syllabus, exams, etc. Absence from exams will require a compelling reason, and must be arranged in advance.

**Complaint procedure:**

I hope and expect that you will have a good time, work a lot and learn a lot in this course. However, if you have concerns or complaints about any aspect of the course, you are welcome to discuss these with me. If we are not able to resolve the difficulty, please contact the Chair of the Department of Mathematics, 14 Maclean Hall.

**Accomodations for students with special needs:**

Students with disabilities are entitled to special arrangements; please contact me in order to arrange appropriate accomodations. (Requests for modifications of class requirements or testing must be made through the Student Disability Services office, 3100 Burge Hall.)

**Notice about cross college enrollments:**

This course is given in the College of Liberal Arts and Sciences. This means that class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the College of Liberal Arts and Sciences. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the College of Liberal Arts and Sciences.