

Fall 2009 - Math 463
Complex Variables for Scientists and Engineers

Lectures: TuTh 11:00am-12:15pm (MTH 0105)

Instructor: Prof. A. Mellet
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Course web page: www.math.umd.edu/~mellet/math463

Textbook: *Complex Variables and Applications*, Eighth Edition. James W. Brown and Ruel V. Churchill. Published by McGraw-Hill. ISBN 978-0-07-305194-9

Course description: This course is an introduction to complex variables. We will review the algebra of complex numbers and study the properties of analytic functions (in particular the Cauchy integral formula and the theory of residues). We will discuss some applications (evaluation of real integrals, conformal mapping, applications to physical problems).

We will cover most of Chapters 1 to 7 and parts of Chapters 8 to 10 in the Brown & Churchill.

Grading Scheme: Your final grade will be computed as follows (assuming that there will be a grader assigned to this course):

Homework	10%
Midterms	60% (20% each)
Final	30%

Exams: There will be three midterm exams and one final exam. The midterm exams will be held during the lecture sessions on the following dates:

- Midterm 1: Oct 1st
- Midterm 2: Nov 10th
- Midterm 3: Dec 8th

The Final exam will take place on Monday, Dec 14 at 8:00am-10:00 am

There will be **no make-up exams**. The weight of a missed exam will be shifted to the final in the following exceptional circumstances: (a) prior notice of a valid, documented absence (e.g. out-of-town varsity athletic commitment) on the scheduled exam date; or (b) notification to the instructor within 48 hours of absence due to medical condition.

Homework will be always be due **in class**. Late homework will **never** be accepted. However, the two lowest homework grades will be dropped.

Email: When writing an email, you must include your course number, section and name in the message. Also, because I receive hundreds of emails, I may not have time to respond to some simple email questions whose answers can be found by other means (such as going to class or looking at the course web page). If you miss a class, you should get the notes from another student in the class. Of course, if you are missing class for an extended time (such as illness or other serious problem), you should contact me as soon as possible.

Students with disabilities: The University of Maryland provides upon request appropriate academic accommodations for qualified students with disabilities. Please see me immediately if you require such accommodation (do not wait until the day before the first exam).

Policy on Scholastic Dishonesty: You are expected to abide by the University's policy on academic integrity. All cases of academic dishonesty will be referred to the Dean of Students Office.