Math 621 - Complex Variables - Spring 2006
MWF 10:10-11:00 AM   LGRT 119

Instructor: Eyal Markman

Tentative Office hours: Monday 12:15-1:30pm, Wednesday 12:45-2:30pm, and by appointment. (Please check the web page for any updates).

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Prerequisites: Advanced Calculus. Students are expected to have a working knowledge of complex numbers and functions at the level of M421, for example.

Text: There will not be a single textbook. The main reference will be:
Complex Analysis, by Serge Lang, Fourth Edition, Springer-Verlag, 1999.

Another text to be used:
Complex Analysis, by Lars V. Ahlfors, 3rd edition McGraw-Hill 1979.

Syllabus: The Basic Theory: Analytic functions, Complex integration, Calculus of residues, and Conformal mappings (Chapters 1 through 8 in Lang; or Chapters 1 through 4 in Ahlfors). If time permits, we will include additional topics such as: The Riemann Mapping Theorem (Chapter 10 in Lang) and/or Elliptic Functions.

Homework: Will be assigned weekly and graded.

Exams:
   Midterm Exam: Thursday, March 30, 5-7 PM (tentative date),

   Final Exam: Date to be determined.

Grades :

   Homework & class participation–30%
   Midterm exam–30%
   Final exam–40%