MATH 122B, Introduction to the Theory of Complex Variables
Spring 2008, UC Santa Barbara

Lectures: Tuesday, Thursday, 11am-12:15pm, Phelps 1420.

Instructor: Milen Yakimov, South Hall 6703,
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Office Hours: Tuesday, Thursday 9:30-11am, and by appointment,

Course Homepage: http://www.math.ucsb.edu/~yakimov/122B,

Text: Fundamentals of Complex Analysis with Applications to Engineering and Science, 3rd ed. by E. B. Saff and A. D. Snider,

Final Exam: Wednesday, June 11, 12-3pm.

Midterm Exam: There will be one midterm exam (in class) on Tuesday, May 6.

Homework: Homework will be assigned in class every week on Tuesday and Thursday. It will be due the following week on Thursday, at the beginning of the class. The homework is an essential part of this course and all students should do it regularly. In addition, some problems on the midterm and the final will be directly taken from the homework.

Grading policy: The homework will count 25% towards your final grade. The midterm and the final will count 30% and 45%, respectively.

Course Content: Topics include calculus of residues, applications to real integrals, argument principle, conformal maps, Möbius transformations, analytic continuation, the Fourier transformation.