

MATH 213A: FUNCTIONS OF ONE COMPLEX VARIABLE

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Lectures: TTh 10-11:30 in Science Center 507

Problem session: W 3-4pm in Science Center 411

Text: Ahlfors, Lars *Complex Analysis*, 3rd edition

Remmert, Reinhold *Classical Topics in Complex Function Theory*
(supplementary text)

Whittaker, E.T. and G.N. Watson *A Course of Modern Analysis*
(supplementary text)

Homework: due on Thursday every week or every other week. It can be turned in during lecture or in the course box up to 5pm. Late homework is discouraged. Should you have an emergency, please let me know before the homework is due.

Exams: There will be one in-class midterm exam halfway through the semester. The final exam will be a take-home exam distributed on December 11th and collected on December 18th. Please plan your travel for winter recess accordingly.

Grading: Course grades will be computed roughly based on homework (20%), midterm (30%), and final (50%).

Prerequisite: An undergraduate course in complex analysis at the level of Math 113 or equivalent. Please talk to me if you have not taken such a course.

Syllabus: We shall quickly go through the first four chapters of Ahlfors in the first three weeks of the semester, since the material therein is supposed to be review. We shall then thoroughly cover the second half of Ahlfors and further topics in complex analysis such as approximation theory of holomorphic functions and value distribution theory for both holomorphic and meromorphic functions.

Course website: my.harvard.edu/icb/icb.do?keyword=k20760