

Complex Analysis

Math 722- Winter 2018

Instructor: Zipeng Wang

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course webpage: ms.mcmaster.ca/zipeng.wang

Introduction: This is a graduate level course on the theory of functions with a single complex variable. The first half of the semester is devoted to several fundamental results, such as Cauchy's theorem, Residue formula and contour integrations, etc. More particular topics will be introduced in the second half of the semester. These are included in the two main objectives, namely, entire functions and conformal mappings.

- Class meets at 312 Hamilton Hall, on Tuesday 2pm -3:30pm and Friday 11:30am-1pm.
- Textbook used: *Complex Analysis* by Elias M. Stein and Rami Shakarchi
- Suggested readings: *Fourier Analysis* by Stein and Shakarchi and *Complex Variables* by Ahlfors and Saks.
- Some notes will be posted on course webpage
- Office hours: Tuesday 3:30pm-4:30pm, Friday 4pm-5pm, otherwise schedule by email.
- Course evaluation is based on weekly assignments and a final project.
- Possible topics for the project will be given after the reading week.