

Math 428A (Winter Quarter, 2020)

Hart Smith

**Instructor:** Hart Smith, C-447 Padelford Hall, email: [hfsmith@uw.edu](mailto:hfsmith@uw.edu)

Office Hours: 2:00–3:30 pm Monday, Wednesday.

Course webpage: <https://sites.math.washington.edu/~hart/m428/>

**Text:** *Complex Variables*, by Joseph Taylor (AMS, 2011)

**Grading:** Your grade for the course will be based on the combined scores from two midterms and regular homework. The weights that each count towards your total score are:

Midterm 1   40

Midterm 2   40

Homework   20

**Exams:** The **First Midterm Exam** will be in class **Friday, February 7**, and the **Second Midterm Exam** will be in class **Friday, March 6**.

You will be allowed a one-sided page of notes on  $8.5 \times 11$  inch paper for each midterm.

**Course Content:** The rough plan for the quarter is to cover chapters 3 through 6 of the text, and some select topics from other chapters if time permits. The emphasis this quarter will be on special properties of analytic functions (such as counting how many zeroes a function has inside some region), and the study of analytic functions as “conformal mappings” on the complex plane.