

## MATH 661: Complex Analysis

### Syllabus for the Fall of 2018

**Instructor:** Prof. Flavia Colonna

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**Office Hours:** TR 12:30 p.m.-1:30 p.m. and 5:20 p.m.-5:45 p.m., or by appointment.

**Prerequisite:** MATH 316.

**Textbook:** J. B. Conway, *Functions of One Complex Variable*, 2<sup>nd</sup> ed., Springer-Verlag, New York, 1978.

**Material to be covered:** Chapters I-V. Topics include analytic functions and their power series representation, conformal mappings, Cauchy's Theorem and the Cauchy Integral Formula, Laurent series and classification of singularities, calculus of residues, and the Argument principle.

**Exams:** There will be one midterm test scheduled on Thursday October 18 and a take-home final exam due Tuesday December 18.

**Homework:** Homework will be collected every other week. Although not all of it will be graded, you are expected to solve all assigned HW problems.

**Grading Policy:**

Homework Problems:	40%
Midterm Test:	20%
Final Exam:	30%
Class Participation:	10%