

MATH 661: Complex Analysis

Syllabus for the Spring of 2012

Instructor: Prof. Flavia Colonna

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Office Hours: TR 10:30 a.m.-12:00 p.m. or by appointment.

Prerequisite: MATH 316.

Textbook: S. Lang, *Complex Analysis*, 4th ed., Springer, New York, 1999.

Material to be covered: Chapters 1-8. Topics include analytic functions and their series representation, Cauchy's Theorem, Laurent series and classification of singularities, calculus of residues, some applications of the maximum modulus principle, conformal mapping and harmonic functions.

Exams: There will be 2 one hour tests scheduled on March 1 and April 19, and a take-home final exam due May 10.

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: Each hour test is worth 100 points. The sum of the graded homework assignments is worth 100 points. The lowest HW grade will be dropped. The take home final exam is worth 200 points. No make-up tests will be granted unless they are arranged ahead of time for an earlier date.

Honor code: You are expected to abide by the GMU Honor Code. All in-class tests and quizzes will be closed book.

Attendance: Each student is expected to come to class regularly. I will keep a record of students' attendance and use this and class participation to decide grades at the end of the semester.

Grading Scale: 90-100: A, 80-89: B, 70-79: C, 60-69: D, < 60: F. The grades A-, B+, B-, and C+ will be assigned based on attendance, effort, and class participation in border line situations.