

## MAT 540 – Introduction to Complex Analysis

**Lecture:** TTH 12:30pm-1:45pm

**Classroom:** Petty 227

**Prerequisite:** Grade of C or better in MAT 394 and MAT 395, or permission of instructor

**Text:** Fundamentals of Complex Analysis with applications to engineering and science by Saff and Snider - Third Edition.

**Instructor:** Dr. Maya Chhetri

**Office:** 125 Petty Science Building

**E-mail:** maya@uncg.edu

**Office hours:** TR 10:00am-10:50am, 2:00-2:40pm and/or by appointment. I usually keep my door open, so feel free to walk-in.

**Catalog Description:** The complex number system, holomorphic functions, power series, complex integration, representation theorems, the calculus of residues.

**Course Objective:** This course is aimed at introducing the idea of calculus for complex functions. The course will focus on some concepts of algebra of complex numbers, analytic (holomorphic) functions, complex integration, series representation for analytic functions and some calculus of residues. Our ambitious goal is to cover Section 1.1 through Section 6.4 except for the optional section marked with \*.

**Tests/Home works/Projects:** There will be three in-class tests, regular homework assignments and a comprehensive final exam.

### **Grading Policy:**

Test 1 = 18% (Tuesday, February 14)

Test 2 = 18% (Thursday, March 22)

Test 3 = 18% (Thursday, April 19)

Final exam = 26% (Friday, May 3 3:30-6:30)

Homework = 20%

### **Grading Scale:**

100-99 = A+ (only for undergraduate students), 98-93=A, 92-90 =A-

89-87 = B+, 86-83=B, 82-80=B-

79-77=C+, 76-73=B, 72-70=C-

69-67=D+, 66-63=D, 62-60=D-

Below 59 =F

**Academic Integrity Policy:** You are required to understand and abide by the UNCG Academic Integrity Policy on all your graded work.

<http://academicintegrity.uncg.edu/>

*Any change in the syllabus will be discussed in the class.*