

Course Syllabus

Course Information

Course Number/Section	Math 3379.001
Course Title	Complex Variables
Term	Spring 2013
Days & Times	MWF 3:00-3:50pm
Room	FO 2.604

Check eLearning for announcements, lecture notes, homework assignments and their solutions.

Professor Contact Information

Professor	Yan Cao
Office Phone	6458
Email	yan.cao@utdallas.edu
Office Location	FO 2.402D
Office hours	W 12:00-2:00pm and F 12:30-1:30pm or by appointment

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Math 2451 and Math 3310.

Course Description

This course provides an introduction to the theory and application of functions of one complex variable. Topics include complex numbers, analytic functions, elementary functions, integrals, series, residues and conforming mapping. Complex analysis is useful in many fields of mathematics, physics and engineering.

Student Learning Objectives/Outcomes

1. Students will know the basic definitions and theorems of the differential and integral calculus of functions of one complex variable.
 2. Students will be able to apply their knowledge of complex variables to solve theoretical and applied problems.
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Required Textbooks and Materials

Complex Variables and Applications (8th edition) by Brown and Churchill.

Assignments & Academic Calendar

Homework will be assigned but will not be collected or graded. A serious and steady effort to work out all the homework problems is highly recommended. Solutions to the homework assignments will be provided.

There will be a quiz after each homework assignment. The quiz will be closely related to the material of that homework assignment. The quiz with worst grade will be dropped for the final grade. Missed quizzes will be zeros.

Exams and quizzes are closed-book tests and students are required to take them at the announced time. All exams (except the final exam) and quizzes will be given during class. Show all details of your work for each problem you solve during exams and quizzes (unsupported answers will receive little or no credit). A scientific calculator may be used. Graphing calculator, programmable calculators, or calculators with non-numeric displays are **not allowed** during quizzes and exams. Graded quizzes and exams will be returned to you as soon as possible. Any document not picked up by the end of finals week will be destroyed. The final exam will not be returned to students but held for review for one year.

Important Dates:

Wednesday, January 30, Last day to drop a class without a "W"

Tuesday, February 26, "WP/WF" period begins

Monday, April 1, Last day to withdraw from a course with "WP/WF"

Friday, February 15, Exam I

Wednesday, March 27, Exam II

Wednesday, May 1, Exam III

Wednesday, May 8, Final exam, 2:00pm (optional, will replace the lowest score of Exam I, II and III)

Grading Policy

25% Quizzes (The worst one will be dropped.)

25% Exam I

25% Exam II

25% Exam III

Grading Scale

[96-100] A+ [93-96) A [90-93) A-

[86-90) B+ [83-86) B [80-83) B-

[76-80) C+ [73-76) C [70-73) C-

[66-70) D+ [63-66) D [60-63) D

Below 60 F

Course & Instructor Policies

Make-up exams

No make-up exams except in extraordinary circumstances. Make-up exam must be arranged **before** the exam. Missed exams will be zeros.

Extra credit

N/A

Late work

All students are expected to take the examinations at the announced time.

Special assignments

N/A

Class attendance

Required.

Classroom citizenship

Required. Any action which disturbs your classmates or interrupts the lecture is unacceptable.

Examples of such actions include the following:

1. Entering the classroom late. Please be punctual.
2. Leaving the classroom before the end of lecture.
3. Cell phones need to be turned off or silent.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.