Math 3146, Section 1

UCONN
UNIVERSITY OF CONNECTICUT

Intro to Complex Variables
Department of Mathematics

Syllabus – Spring 2019

Excluding materials for purchase, syllabus information may be subject to change. The most up-to-date syllabus is located within the course in HuskyCT.

Course and Instructor Information

Course Title: Intro to Complex Variables
Credits: 3
Format: Lecture
Prerequisites: MATH 2110 and 2410, or MATH 2420 or MATH 2144. Not open for credit to students who have passed MATH 5046.

Course Meetings: Monday, Wednesday, and Friday, 10:10AM – 11:00AM, MONT 414.

Professor: Maxim Derevyagin
Email: maksym.derevyagin@uconn.edu
Telephone: (860) 486-1288
Office Location: MONT 310
Office Hours/Availability: Monday and Wednesday, 2pm – 3:30pm or by appointment. I can usually respond to an email within 24 hours.

Course Materials

Textbook: *Complex Variables and Applications*, Ninth Edition, by J. W. Brown and R. V. Churchil.

Course Description

Complex numbers, Functions of a complex variable, integration in the complex plane, conformal mappings.

Course Objectives

Upon successful completion of the course, students will understand how the general behavior of a function of a complex variable differs from the corresponding function of a real variable. They will also understand what is meant by an analytic function and how important this notion in complex analysis and in mathematics in general. Also, they should be able to employ concepts and theories learned in class in order to solve a variety of problems involving functions of a complex variable.

Tentative Course Outline

Module 1: *Analytic functions.* It will be based on Chapters 1, 2, 3, and 5 of the textbook (January 22nd - March 1st).

Module 2: *Integration*. It will be based on Chapters 4, 6, and 7 of the textbook (March 4th – April 12th).

Module 3: *Conformal mapping*. It will be based on Chapters 8 and 9 of the textbook (April 15th – April 26th)

Module 4: *Course Review* (April 29th – May 3rd)

Course Requirements and Grading

Summary of Course Grading:

Course Components	Weight	Points
Quizzes/Homework	20%	100
Midterm Exams	40%	200
Final Exam	40%	200
Total	***100%***	***500***

Quizzes/Homework:
Homework will be assigned at the end of the week but it will not be collected and graded. Instead of that, there will be 5 in-class quizzes and the quiz problems will be taken from the homework. The lowest quiz score will be dropped. Each quiz will be worth 25 points and, therefore, the quiz total is 100 points.
Tentative quiz dates are February 8th, February 22nd, March 15th, April 5th, and April 26th.

Midterm Exams:
There will be 2 midterm exams. Each midterm exam will be worth 100 points, which means that the total for this component of your grade is 200 points. The lowest midterm test score will be replaced by student's final exam score divided by 2 provided that it improves the grade.
Tentative test dates are March 1st and April 12th.

Final Exam:
The final exam is accumulative and it will be worth 200 points.
The final exam date is TBA

Grading Scale:

Grade	Letter Grade	GPA
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
63-66	D	1.0
60-62	D-	0.7
<60	F	0.0

Student Responsibilities and Resources

As a student enrolled in this class you must be aware that

- You should attend all class meetings and you are responsible for the material that you missed due to absences. So, it is always a good idea to know a couple of your classmates.
- Cell phones, laptops, and other electronic devices that might cause disruption should be turned off or silenced before class begins.
- Electronic devices including calculators will NOT be allowed during exams and quizzes.
- In order to be fair to everyone, there are no make-up tests. Just keep in mind that the grading system of this course is developed in a way that a student can miss a test and a quiz and still succeed in this course.

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important standards, policies and resources, which include:

- The Student Code
  - Academic Integrity
  - Resources on Avoiding Cheating and Plagiarism
- Statement on Absences from Class Due to Religious Observances and Extra-Curricular Activities
- Policy Against Discrimination, Harassment and Related Interpersonal Violence

Students with Disabilities

The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.