

MATH 526 Complex Variables

Department of Mathematical Sciences

Spring 2019

Prerequisite: MATH 222

Text: **Complex Analysis** 2nd Edition Stewart & Tall Cambridge University Press

Course Description: This course introduces the mathematical techniques that are commonly used to analyze those problems in the sciences and engineering that are inherently two dimensional in nature. Its content is the analysis, in both the classical and geometric sense, of differentiable functions of a single complex variable. Topics will include: the complex plane, analytic functions, the Cauchy-Riemann equations, the Cauchy integral formula, Taylor and Laurent series, the residue theorem, and conformal mappings.

Instructor: Dr. Eran Makover

Phones: Office: (860) 832-2941

Email: *makovere@ccsu.edu* best way to reach me

Office: Marcus White 103

Office Hours: MWF 11:00-12:00 and MW 3:00-4:00, or by appointment

Class Meeting Times: Tuesday and Thursday 4:30-6:10 Maria Sanford 323

Additional recommended books:

Ahlfors, Lars V., **Complex Analysis**, third edition, McGraw-Hill, 1979.

Needham, Tristan, **Visual Complex Analysis**, Oxford University Press, 2002.

Priestley H.A., **Introduction To Complex Analysis** Oxford University Press 2003

University Policies:

1. You must take the all test on the time. If you have a valid reason you have to contact me before the test to arrange alternative time.
2. ***Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Stephanie Scapeccia in Student Disability Services at: (860) 832-1952, Willard, Rooms 201, if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with faculty.***
3. In the event of a weather or other emergency curtailment or cancellation of classes, listen to WTIC (1080 AM), call 860-832-3333 for any messages, or visit the CCSU website
4. The last day to withdraw from a course is April 22, Approvals for withdrawal are not required; however, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessations of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of a student's intention to drop the course.
After April 22 withdrawals are allowed only under extenuating circumstances and require approval of the course instructor, department chair.
Poor academic performance is not considered an extenuating circumstance.

Central Connecticut State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about should contact the Office of Diversity and Equity (ODE) at 860-832-1652, Student Affairs at 860-832-1601, or his/her faculty member. The ODE is located on the main floor of Davidson Hall, room 102.

Central Connecticut State University is committed to providing a learning and working environment that emphasizes the dignity and worth of every member of its community. Sexual harassment (including sexual assault) in any form will not be tolerated. Sexual harassment" means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. For additional information, please consult the CCSU policies at <http://www.ccsu.edu/diversity/policies/index.html>. **All faculty members and staff have a duty**

to report incidents of sexual harassment including sexual violence to Rosa Rodríguez, Title IX Officer, Office of Diversity and Equity, Davidson Hall, 102.

To file a report contact: Diversity and Equity (860-832-1652); Student Affairs (860-832-1601); Student Conduct (860-832-1667) or the University Police (860-832-2375).

For support and advocacy contact: Office of Victim Advocacy & Violence Prevention (Carroll Hall 248) at 860-832-3795 to speak with Sarah Dodd {sarahdodd@ccsu.edu}; Student Wellness Services at 860-832-1945 (confidential), the Women's Center at 860-832-1655, the local YWCA's Sexual Assault Crisis Services Hotline at 860-223-1787 (confidential) and Prudence Crandall Center for Domestic Violence (confidential) at 888-774-2900 (24-hour hotline).

Academic Integrity: All students are expected to demonstrate integrity in the completion of their coursework. Academic integrity means doing one's own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

For further information on academic misconduct and its consequences, please consult the Student Code of Conduct (<http://www.ccsu.edu/StudentConduct/codeofconduct.asp>) and the Academic Misconduct Policy (<http://www.ccsu.edu/AcademicIntegrity/>).