MATH 4322-206
Fall 2004

Instructor: Larry F. Heath
Office: 435 Pickard Hall
Office Hours: 8:00am-8:50am and 10:00am-11:30am MWF
8:00am-9:20am TTh
and by appointment
Office Telephone: (817)272-3261
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web home page: http://www.uta.edu/heath
Class Room: 302 Pickard Hall
Class Time: 11:00am-12:20pm TTh

Text: Complex Variables and Applications by Brown and Churchill 7th Edition
Reference: Schaum's Outline Complex Variables by Spiegel
Prerequisite: Math 2326 Calculus III
Topics: Complex numbers, Analytic functions, Elementary Functions and their mapping properties, Integrals, Series, Residues and Poles, and Applications of Residue.

Grading Procedure: Three tests. Each will be 1/3 of your grade.

Grading Scale:
90-100 A
80-89 B
70-79 C
60-69 D
0-59 F

Important Dates: Aug 23 First Day of Class
Sept 6 Labor Day Vacation
Sept 8 Census Day
Sept 29 Test 1
Oct 1 Last day to drop with automatic W
Oct 15 Midsemester
Nov 2 Test 2
Nov 12 Last day to drop under any circumstances
Nov 26 Thanksgiving Vacation
Nov 29-Dec 3 Final Review Week
Dec 3 Last Day of Class
Dec 7 Third Exam at 11:00am - 12:20pm in the class room

Catalog: MATH 4322. INTRODUCTION TO COMPLEX VARIABLES (3-0) 3 hours credit.
An introduction to the theory of functions of a complex variable and also an introduction to applications including uses of the residue theory, contour integration and conformal mapping. Prerequisite: MATH 2326.
Objective: To understand and apply results about complex numbers, analytic functions, elementary functions and their mapping properties, integrals, series, residues and poles, and applications of residue.

AMERICANS WITH DISABILITIES ACT: The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112—The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of The Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Students responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.

ACADEMIC DISHONESTY: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. " (Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22)

GRADE REPLACEMENT POLICY: Upon receiving a grade of D or F in a course, a student may, after filing an intent to do so, replace the grade by repeating the course. The second grade earned, whether higher or lower, will be used in calculating the grade point average unless the second grade is a W. This applies only the second time a course is attempted. Both grades received will be shown on the student's transcript. This policy will apply to a maximum of 10 credit hours at U.T.Arlington. Students must file their intention to replace a grade with the registrar by the Census Date. All withdrawals after the Census Date will be considered an attempt, and the initial grade will be used. This policy will not apply to courses that my repeated for credit or courses taken on a pass/fail basis. This policy is not applicable to graduate students and is not retroactive in that a grade in a course taken prior to adoption may be replaced, but a grade earned in a course prior to adoption may not be used as a replacement. Individual colleges and schools may limit this policy.

STUDENT DISRUPTION: The University reserves the right to impose disciplinary action for an infraction of University policies. For example, engagement in conduct, alone or with others, intended to obstruct, disrupt, or interfere with, or which in fact obstructs, disrupts, or interferes with, any function or activity sponsored, authorized by or participated in by the University.

DROP FOR NON-PAYMENT OF TUITION: If you are dropped from this class for non-payment of tuition, you may secure an Enrollment Loan through the Bursar's Office. You may not continue to attend class until your Enrollment Loan has been applied to outstanding tuition fees.