Course Syllabus for MA433G 001 - Spring 2018

Title: Introduction to Complex Variables

MWF 11:00-11:50   CB 337   3 hrs. credit

Prerequisite: MA 214

Instructor: Dr. Lawrence Harris   939 POT   Office Hours: MWF 3-4

Text: *Complex Variables and Applications*, 8th edition, by Brown and Churchill, ISBN 978-0-07-305194-9

This is a course in the calculus of functions of a complex variable. We discuss the complex number system, analytic and harmonic functions, complex extensions of the exponential, logarithmic, trigonometric and inverse trigonometric functions, complex integration, power series and Laurent series, evaluation of integrals by residues and topics in conformal mapping and Möbius tranformations. (Chapters 1-7 and parts of 8.)

The course grade will be computed based on the following possible points:

3 one hour exams	100 pts each
Quizzes and Homework	100 pts
Final Exam	100 pts

cutoffs	A	B	C	D
Undergrad	450	400	350	300
Grad	460	410	360	

Homework must be turned in at the beginning of class on the date due. The hour exams will be given in class on Friday, February 2, Friday, March 2 and Friday, April 6. The final exam will be given 10:30 am-12:30 pm on Tuesday, May 1, in our classroom.

Additional material covered in class may appear on exams or quizzes and in homework assignments. Students may use a graphing calculator on exams but may not use any device with the ability to do symbolic computations such as the TI-89, TI-92, HP48 or a laptop, netbook, tablet, etc., computer. Moreover, any device capable of electronic communication such as a cell phone or computer must be turned off and put away out of sight during all examinations. During regular class periods cell phones must be turned off and laptops and tablets may not be used.

Attendance in class is expected. A student will receive an additional 20 pts extra credit added to their final score at the end of the semester if the number of lectures for which the student is not present during the entire class period is no greater than three. (A fully documented excused absence will not be counted.) A student with 12 or more unexcused absences will automatically receive an E in the course.

You are required to present FULL documentation that any makeups you request are required by University rules. This documentation needs to be submitted to me within 10 days of your absence and the earlier the better. Please notify me as soon as possible if you have an excused absence for an exam. If I have authorized you to take a makeup exam during dead week, it is your responsibility to contact me the week before dead week and schedule a time during dead week for you to take the exam. A Tier 2 or Tier 3 document provided by UHS is appropriate verification for an excused absence due to illness. Excused absences for religious holidays require written notification one week in advance.

The course webpage is at http://www.ms.uky.edu/∼larry/ma433