Syllabus: MATH 4283, Complex Variables, Section 001G

Course

Complex Variables, MATH 4283, Section 001, 11:30-12:20 MWF, MSCS 514

Prerequisite: MATH 2163, Calculus III (Differential and Integral Calculus of functions of several variables and an introduction to Vector Analysis).

Course Description: Properties of complex numbers, analytic functions of a complex variable, contour integrals, Cauchy's Integral Theorem, power series and Laurent series, residues and poles, conformal mapping, and applications.

Textbook: *Complex Variables and Applications* by Brown and Churchill, 9th Edition.

Instructor Name: Dr. James R. Choike, Professor of Mathematics
Office: MS 416 **Office Hours**: By Appointment
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Exams

There will be three Exams. Dates given below and Chapters covered are approximate.

Exam 1 Friday, September 19, Chapters 1 – 4, 8
Exam 2 Wednesday, October 22, Chapters 4-6
Exam 3 Monday, November 24, Chapters 7, 9, 10, 12

Comprehensive Final Exam

Date: Friday, December 12, 2014 **Time**: 10:00 - 11:50 AM **Place**: MSCS 514
The Final Exam will count for 25% or 50% of the final grade, whichever gives the higher grade.

Homework

Problems will be periodically assigned as homework. Homework will count for 15% of the semester grade.

Determination of Final Grade for the Course

The final grade will be based on the semester score *S* and the final exam score *F*. The semester score *S* will be a weighted average of the average of the three Exam scores and the average of the Homework score *H*. Thus, if $E = \frac{E_1 + E_2 + E_3}{3}$, then the semester score *S* will be computed as follows: $S = \frac{85}{100}E + \frac{15}{100}H$. The score on the final exam will be denoted *F*.

The grade for the course will be based on the number $G = \max\left(\frac{S+F}{2}, \frac{3S+F}{4}\right)$.

The final letter grade will be determined according to the grading scale:

Grading Scale

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D

For Graduate Credit

Students taking the course for Graduate Credit will be required to submit a 7-10 page (double-spaced, 12-point) paper over a topic related to the course. The paper must go beyond the mathematical discussion of a topic in the text and be based on outside readings that are clearly referenced and footnoted. The due date for this paper is on or before December 5, the last class meeting of the semester. Failure to submit a paper will result in the grade in the course being reduced by one letter grade, e.g. from a grade of A to a grade of B, and so on. A submitted paper of poor quality (below Graduate College standards) will result in the grade in the course being reduced by one-half letter grade, e.g. from a grade of A+ to A-, from A to B+, from A- to B, and so on.

For more information on the format and style of the Graduate Paper see the link “Graduate Paper Format for Complex Variables.”

Important Dates

Monday, August 25, 2014: Last day to drop a course with no grade and no fees.
Friday, August 29, 2014: Last day to drop a course with 50% fees and grade of "W."
Monday, September 1, 2014: Labor Day.
Tuesday, September 30, 2014: Six-week grades are due.
Friday, October 24, 2014: Fall Break Day.
Friday, November 7, 2014: Last day to drop or withdraw with an automatic grade of “W.”
Friday, November 21, 2014: Last day to drop with an assigned grade of “W” or “F.”
December 1-5, 2014: Pre-Finals Week.
December 8-12, 2014: Finals Week.