

Syllabus: MATH 4283, Complex Variables, Section 001

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

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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

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.