Your Prof: James D. Harper, Ph.D.  Office: 107C Bouillon  
My Phone: (963) 2402  e-mail: harperj@cwu.edu

Office Hours
Monday, Wednesday 10:00 to 11:00
Friday 1:00 to 2:00
And by appointment.

Text Schaum’s Outlines Complex Variables, 1st edition.

Syllabus Selections from chapters 1 through 8.

Equipment A ruler. Bring it to class everyday.

Grading System

Homework 30%
Homework will be assigned in two categories: “Turn In” and “Self – Study”. Turn in homework will be collected once each week, usually on Wednesdays. Your work will be read and commented on. Late homework is discouraged, but will be accepted on rare occasions.

Exams 50%
There will be two in-class exams for your pleasure and enjoyment. Dates will be announced.

Final Exam 20%
This will be a take-home exam due Tuesday, June 9.

Grading Scale
In a small upper division class it does not make sense to have a percentage based grade scale. Your grade will be based on your knowledge and mastery of the material and your overall performance. Some class participation maybe required.

Important Dates
Memorial Day Holiday Monday, May 25
Course Objectives and Learner Outcomes
Students will be expected to do the following.
- Perform complex number arithmetic in rectangular and polar forms.
- Differentiate the elementary functions
- Compute line integrals
- Compute real integrals using residues and Cauchy's Theorem.
- Compute the Taylor series for a holomorphic function and the radius of convergence of a power series.
- Determine where a region is mapped under a linear fractional transformation. Conversely, students will be able to define a linear fractional transformation that maps one region to another region.
- Prove a given function is holomorphic using the Cauchy-Riemann equations.

Corresponding with Dr. Harper
It is easier for me to respond to e-mail than to a voice-mail message, especially if you have a technical question or, even, if you just want to set-up an appointment. Generally speaking, the latest I check my e-mail is about 2:00 in the afternoon. (I do not have home e-mail service.) Therefore, messages sent after two o’clock will not be read until the next day.