

UNIVERSITY OF CENTRAL FLORIDA
Department of Mathematics
MAA 5405.01 Complex Variables - Fall 2006

Location and Time: MAP 109, MW 4:30-5:45 PM
Instructor: Alexandru Tamasan
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web site: www.math.ucf.edu/~tamasan/f06complex.html
Office Hours: M 10:00 -12:00 AM and MW 5:45-7:30 PM

Textbook: Ablowitz and Fokas, *Complex Variables*, Cambridge Texts, 2nd ed. (available at U Bookstore).

Recommended but not required: M. Spiegel, *Complex Variables*, Schaum's outlines series (any edition).

Course goal: To introduce the fundamental theory of function of one complex variable and present some of its applications. We will cover analytic functions, integration in the complex plane, series and products, residue calculus and conformal mappings. This is the content of the first five chapters in the textbook.

Homework and Quizzes: Homework will be assigned but not collected instead you will get the feedback from short quizzes. Some problems may require techniques of proofs from the theorems presented in class. **I encourage collaborative work.** Almost every other week you will get a 10 min long quiz in which one or two of the past homework problems will be selected. Clarity of your exposition accounts for full credit.

Exams: There will be two term in-class exams *tentatively scheduled for Sep 27 and Nov 6*, and one comprehensive final exam.

Grade policy: Quizzes is 20%, each midterm is 20% and the final is 40%.

90%-100% A

80%- 89% B

70%- 79% C

60%- 69% D

below 59% F

Extra credit: Challenging problems may be handed out occasionally. They will account for extra-credit. No collaboration is allowed on the extra-credit problems.

Help: Talking to each other will prove productive. Stop by my office during the office hours or schedule an appointment.

In all the tests you are allowed to use your own class notes but neither the book nor the homework. Mixing the homework with the class notes is not allowed.

Important Dates: Withdrawal deadline is Oct 13, Final exam is Dec 4.