MAA 6407 – Complex Analysis II – Spring 2014

Homework page is here   .

Time and Location: MWF period 5, Little Hall, Rm 221

Office Hours : MWF period 8, and by appointment made 24 hours in advance.

Note on Email: I often check my email just in the early afternoons on weekdays. So if you need a reply by a certain time, plan ahead accordingly.

Text: John B. Conway, *Functions of One Complex Variable,*, second edition, Springer-Verlag, 1978.

Prerequisites: MAA 6406

Brief Course Description: This two semester course gives a rigorous and complete introduction to the theory of functions of one complex variable. Topics will include: A rapid survey of properties of complex numbers and necessary concepts from topology; Complex integration, including Cauchy's theorem, the Open Mapping Theorem and Goursat's Theorem; Meromorphic functions, the Residue Theorem and the Argument Principle; The Maximum Modulus Theorem, Schwarz's Lemma, Hadamard's Three Circles Theorem, the Phragmen-Lindeloef Theorem; Spaces of analytic and meromorphic functions and the Riemann Mapping Theorem, Infinite Products, Harmonic Functions, and Riemann surfaces..

Grades: Grades will be based on a mixture of homework, exams, class participation and projects based on the students requirements.

Honor Code: On all work submitted for credit by students at the university, the following pledge is either required or implied:

On my honor, I have neither given nor received unauthorized aid in doing this assignment.

In this course authorized aid on homework consists of talking to me, other students, and looking at the text for this course. This means that you are not allowed to look in other books for solutions to the homework or at the written solutions of other students. For more information on the student honor code see the Dean of Students Website.

Class Attendance: Most students benefit a great deal from attending class regularly. Arriving late and/or leaving early, reading the newspaper, looking at your cell phone, etc. disrupts the class and is rude and unprofessional.

Excused Absences: In certain circumstances a student will be able to make up a missed exam. These circumstances could include medical situations, family emergencies, travel for University activities (eg. band, debating club, etc), and religious observances. In these cases the student must inform me before or within one week after the missed work and **provide written documentation**.

Accommodations for Students with Disabilities: The University Policy: "Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation."