Course Syllabus:  APPM 4360/5360  Spring 2016

Methods in Applied Mathematics– Complex Variables and Applications

Instructor: M.J. Ablowitz: <mark.ablowitz@colorado.edu>; ph:2-5502; off. ECCR 255
Classroom: MWF ECCR 1B51  MJA: Office hours 2:00–3:00 MWF or by appointment;
Teaching support/grading: I. Rumanov: email: <igor.rumanov@colorado.edu>; off. ECCR 251; office hours: 2:00-3:30PM Tu-Th or by appointment.


- Generally, homework will be assigned biweekly

- Three exams (evening); Expected exam dates: Exam #1 Tuesday Feb 16: 5:30–7:00PM; Exam #2 Wednesday March 16; 5:30–7:00PM; Exam #3 Thursday April 21 5:30–7:30PM. There will not be a formal final exam during finals week in this course.

- A project will be required on a topic relevant to the course. The project will consist of a written report and a talk of approximately 30 minutes plus 5 minutes for questions. The project will be due and scheduled during last week in the course: April 25-29. A list of potential projects will be distributed in a few weeks. At a mid point of the semester a one page description of the topic you will study will be required. Undergraduates will be able to work together in groups of size up to three; graduate students can work in groups of size up to two.

Expected grade weighting: Exams: 60%: Exam #1: 17%; Exam #2: 18% Exam #3: 25 %; Homework: 25%; Project report and lecture: 15%

Approximate outline of topics:

- Chapter 1: 1.1–1.3  2 weeks
- Chapter 2: 2.1–2.6  4 weeks
- Chapter 3: 3.1–3.3, 3.5 4 weeks
- Chapter 4: 4.1–4.6 4 weeks
- Miscellaneous topics: 1 week; project reports and presentations during last week of classes