Office: Olin 1263  Phone: x73171  email: castro@math.hmc.edu
Office hours: Monday and Thursday, 1:15–2:30pm, and by appointment.

Topics: The real number system, the complex number system, basic topology (metric spaces, compact sets, perfect sets, connected sets), numerical sequences and series, continuity, differentiation, and uniform convergence of series of functions.


It’s also useful to consult other books on real analysis. Sprague Library has many of these; look around the QA300 area.

Course meets: Monday–Wednesday, 2:45–4:00pm, Jacobs B132.

Tutors/graders: Melissa Banister, Jeff Jauregui, and Jason Murcko.

Tutoring hours (to be confirmed): Sundays and Wednesdays 9–10pm, Baker Room, Linde Activities Center.

Web page: Homework assignments and other useful information are posted on the course page: http://www.math.hmc.edu/~castro/

Grading:

- Homework: due at my office (Olin 1281) by 5pm on Mondays and Thursdays.
- First midterm: in class test on Chapters 1 and 2, Wednesday February 25/04.
- Second midterm: in class test on Chapters 2 and 3, Wednesday March 31/04.
- Final exam: three hour comprehensive test, Friday May 14/04, at 2:00pm.

Each midterm test is worth 20%, homework 25%, and the final exam 35%.

Homework, with Rewrites: We will use a system of optional Rewrites for homework. On the due date, turn in the homework for that day by 5pm at my office (Olin 1263), in the appropriate labeled folder (e.g. ‘HW 2, due Mon Feb 3’). Your homework will be graded and returned within a week, with written comments from the graders. If you are not satisfied with your grade on the assignment, you have the option of re-doing any questions you wish, and
submitting the rewritten homework, along with the previously graded version. 
(Except: You can only rewrite a question if you made a serious attempt at it in your first version.) If you choose to do a rewrite, it is due at my office by 5pm, two weeks after the original due date of the assignment. (Except: No rewrites will be accepted for assignments due in the last two weeks of class.) Your rewritten assignment will be graded, with particular attention to whether you adopted the graders’ suggestions, and new grades will be assigned for rewritten questions. Your grade for a rewritten question will always go up (or stay the same); it will never go down.

No late homework will be accepted. The lowest 2 homework scores of each student will be dropped. Please staple your HW, write your name and the assignment number on it, and turn it in in the appropriate folder.

An excellent source on good mathematical writing is the Handbook of Writing for the Mathematical Sciences, N. Higham, SIAM, 1998.

**Honor Code:** Though cooperation on homework assignments is encouraged, students are expected to write up their own solutions individually. That is, no copying. Comprehension is the goal, so even with cooperation, you should understand solutions well enough to write them up yourself. It is appropriate to acknowledge the assistance of others; if you work with others on a homework question, please write their names in the margin. Tests are to be done individually. You are encouraged to discuss your paper with other students. The HMC Honor Code applies in all matters of conduct concerning this course.

January 20, 2004