MATH 64: Differential Equations II, Sections 1 and 2  
Spring 2005  
Professor Alfonso Castro

Office: Olin 1262    Phone: x73171    email: castro@math.hmc.edu

Office hours: Monday and Wednesday, 3:00pm–4:00pm, and by appointment.

Topics: Review of basic ordinary differential equations, especially systems; undriven linear systems; orbital portraits; stability and conservative systems; Lyapunov functions; cycles and long term behaviour of solutions; Sturm-Liouville problems; series solutions near ordinary and regular singular points; Bessel functions; chaos.


Course meets: Section 1: MWF at JA B132, 8:00am to 8:50 am. Section 3, MWF at JA B132, 9:00am to 9:50am.

Tutors/Graders: To be announced.

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 in class every Wednesday.

• Midterm: in class, April 4, 2005.

• Final exam: two hour take home comprehensive test due 5/13/05 by 4:30pm..

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.