

Math 307A, Dynamical Systems & Chaos, Fall 2011, Colgate University

Instructor: Marius Ionescu (mionescu@colgate.edu)

Office Hours: Tu 12:30–2:00, We 2:30–4:00

Course web site: <http://math.colgate.edu/~mionescu/math307f11/>

Text: *CHAOS, An Introduction to Dynamical Systems* by K. Alligood, T. Sauer, and J. Yorke, Springer 1996

Webpage: The syllabus and other important communications will be conveyed via the course web page: <http://math.colgate.edu/~mionescu/math307f11/>

Planned Coverage: I plan to cover Chapters 1–6, 11, 12. Please check the course webpage for up to date information about the coverage.

Homework: I will assign bi-weekly homework. The homework will be due on Thursdays, at the beginning of the lecture. I advise you to type your solutions using the LaTeX system. You can find some information about using LaTeX on the course webpage. Please check the course webpage regularly for up to date information about the homework and due dates.

Some of the assignments will contain a computer project. You should use Matlab for the computer projects. Matlab is installed on all computers in the computer lab. I will present an introduction to Matlab in class as well as a few examples throughout the lectures.

Exams: There will be two midterm exams and one final. Exam solutions must be entirely your own work. The first midterm will take place on Thursday, October 6 in class; the second midterm will take place on Thursday, November 10 in class. The final exam, which is cumulative, will be held during finals week as determined by the university-wide schedule.

Grading:

Homework	20%
Midterm 1	25%
Midterm 2	25%
Final	30%.

Class Attendance Attendance to all class meetings is expected but there is no formal penalty for absence from a class meeting.

Class Participation I strongly encourage you to be actively involved in class by asking questions, suggesting answers and solutions to my questions, etc.

Students with disabilities Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Please contact Lynn Waldman, Director of Academic Support and Disability Services, at 315-228-7375 in the Center for Learning, Teaching, and Research to coordinate reasonable accommodations for students with documented disabilities.

Other: Please turn off your cell phones. No talking and **no text messaging** during the lectures allowed.