SPRING 2008

CHAOTIC DYNAMICS: COURSE SYLLABUS

Course Number: PHYS 715

Class:	Tues., Thurs.; 2:00 to 3:15; PHY 3301
<u>Instructor</u>	Edward Ott Room 3329 AVW Building Phone: 405-5033 (Office) edott@umd.edu
Office Hours:	Tues. 3:15-4:15 and, at other times, by appointment.
<u>Course Content:</u>	One dimensional maps, strange attractors, fractal dimension, embedding, Lyapunov exponents, entropy, controlling chaos, fractal basin boundaries, chaotic scattering, Hamiltonian chaos, quantum chaos, chaos in fluids,
<u>Textbook:</u>	'Chaos in Dynamical Systems' by E. Ott (Cambridge University Press, 2 nd edition)
Homework/Exam	<u>.</u>
	Homework set #1 due Feb. 19 Homework set #2 due March 11

Homework set #1 due Feb. 19 Homework set #2 due March 11 Homework set #3 due April 8 Exam April 17 Homework set #4 April 29 Term paper due May 14

Grading: Homeworks 50%, Exam 25%, Term paper 25%.