Chaotic Dynamics: Schedule

as of Aug 30, 2001

Date	Description	Homework:
8/30	Intro to Dynamical Systems Intro to Matlab	Read p. 9-16 Handout
9/4	Chapter 3: Orbits Group Work/Experiment 3.6	In Class: 2,3,7(b,h),13 HW: 5,8,7(d,e)
9/6	Chapter 4: Graphical Analysis Matlab	In Class: 1(b,g), 7(a-d) HW: 1(d,f),2(a),4(e),7(e-i)
9/11	Coding + Chapter 5: Fixed Points	In Class: 5-9 HW: 1(a,b,h),2(a,d),4(a,b,d,g,h)
9/13	Discussion + Chapter 5	In Class: 1(a,b,d),and either 2-5 or 6-11 HW: As before.
9/18	Chapter 6: Bifurcations	In Class: 1(a-f),2,6 HW: 1(h-j),15
9/20	Chapter 6	In Class: 3-5 HW: 7-14
9/25	Chapter 7: The Quadratic Family	In Class: Construct Λ HW: None
9/27	Chapter 7	In Class: 3,4,8,12,14 HW: 1,2,9,10
10/2	Chapter 7	In Class: Website HW: 16, 17, 18
10/4	Chapter 8: Transition to Chaos	In Class: 1,2,3 HW: 4,5,6
10/9	Chapter 8	In Class: 14 HW: 9,10
10/11	Chapter 9: Symbolic Dynamics	In Class: 1,3,6,7 HW: 2,5,8
10/16	Chapter 9 (Mid Semester)	In Class: 10,12,14,17(?) HW: 11,13,15
10/18	Chapter 9 HW: None	In Class: None
10/23	Chapter 10: Chaos Defined	
10/25	Chapter 10	
10/30	Chapter 11: Sarkovskii's Theorem	
11/1	Chapter 11 Chapter 12(?) The Schwartzian Derivative	
11/6	Chapter 13: Newton's Method	
11/8	Chapter 14: Fractal Geometry	
11/14	Chapter 14: Fractal Geometry	
11/15	Chapter 14: Fractal Geometry Ch 15: Complex Numbers	

Date	Description	Homework:
	THANKSGIVING BREAK	
10/27	Chapter 15: Complex Numbers	
	Chapter 16: Julia Sets	
10/29	Chapter 16: Julia Sets	
12/4	Chapter 17: The Mandelbrot Set	
12/6	Chapter 17: The Mandelbrot Set	