

Week Number	Lecture	Article Discussion/Labs
Week 1: Aug 29, Aug 31	Nonlinear 1-D ODE Models	Intro to Maple
Week 2: Sept 5, Sept 7	Bifurcations in 1-D ODE Models	Intro Matlab
Week 3: Sept 12, Sept 14 Sept 12	Intro to Networks <i>1st Project Update Due</i>	Ludwig et al. article
Week 4: Sept 19, Sept 21	Non-Dimensionalizing, SIR Models	Newman article
Week 5: Sept 26, Sept 28 Sept 26	2-D ODE's, Linearization, Stability <i>Mini-Project Due</i>	LinAlg. in Maple & Matlab
Week 6: Oct 3, Oct 5	2-D ODE's, Phase plane,	ode45 Matlab, pplane Matlab
Week 7: Oct 10, Oct 12 Oct 12	2-D ODE Models <i>2nd Project Update Due</i>	Camacho et al. paper
Week 8: Oct 17, Oct 19	2-D Bifurcations	Hethcote article
Week 9: Oct 24, Oct 26	1-D Difference Eqns., Lin., Cobwebbing	Cobwebbing Matlab
Week 10: Oct 31, Nov 2 Nov 2	Bifurcations in Difference Eqns. <i>3rd Project Update Due</i>	Individual Lab
Week 11: Nov 7, Nov 9	2-D Difference Eqns	TBA
Week 12: Nov 14, Nov 16	TBA	TBA
Week 13: Nov 21, Nov 23	Epidemiology Models	<i>Thanksgiving</i>
Week 14: Nov 28, Nov 30 Nov 28	More Models <i>Draft of Final Written Report Due</i>	Individual Lab
Week 15: Dec 5, Dec 7 Dec 5 Dec 7	TBA <i>Final Written Report Due</i> <i>Power Point Presentation Due</i>	TBA
Week 16: Dec 14 (8-10 AM)	Students' Presentations	