

Math 495 Tentative List of Topics with Corresponding Section in Book

Topic	Section in Book
linear & nonlinear ODE's in 1-d	1.1-1.3,1.6,1.9-1.11,2.1,4.1-4.3,9.3
bifurcations in 1-d ODE's	not in book
nondimensionalizing	1.14,8.3
ODE's in 2-d, linearization, stability, phase plane	1.4,1.5,2.0,2.2,2.7,4.11,4.12,10.1,10.2
bifurcations in 2-d ODE's	not in book
difference equations in 1-d, cobwebbing	1.7,1.8,2.4,4.13
bifurcations in difference equations	not in book
intro to 2-d difference equations	not in book
birth, death processes	5.0-5.5
stationary distributions	5.6-5.8,6.1-6.7,8.1,8.6,10.4,10.5,10.6