

MATH 377/575
Mathematical Models (3 units)

Course Outline

Topics	# of Weeks
Mathematical Models	1.0
Arms Races Supplemental material in differential equations	2.5
Ecological Models: Single species COMAP Module on Leslie Models Interacting Species	3.5
Probability	0.5
Markov Processes	1.5
Simulation	1.0
Linear Programming and Sensitivity Analysis	2.0
Student Presentations	1.0
Exams	1.0

Textbooks: An Introduction to Mathematical Models in the Social and Life Sciences,
by Michael Olinick (out of print - used copies available On Line, and several
copies on reserve in Cook Library)

COMAP Modules will be distributed as needed

Adopted: March, 2007