

		<i>EY600 Spring 2009 Lecture Topic</i>	<i>Chapters</i>
Week 1			
1	20 Jan	Introduction	
2	22 Jan	History of population and community ecology	
Week 2			
1	27 Jan	Population ecology: simple exponential growth models	Gotelli 1
2	29 Jan	Adding density dependence: logistic population growth	Gotelli 2
Week 3			
1	3 Feb	Age-structured models: Leslie matrices	Gotelli 3
2	5 Feb	Stage-structured models: Lefkovitch matrices and applications	
Week 4			
1	10 Feb	Population regulation: Density-dependence	
2	12 Feb	No class	
Week 5			
1	17 Feb	Population regulation: Self-thinning	
2	19 Feb	Space: the final frontier in ecology - role of dispersal and migration	
Week 6			
1	24 Feb	Population biology of biological invasions - patterns and prediction	
2	26 Feb	Spatially structured populations: metapopulation models	Gotelli 4
Week 7			
1	3 Mar	Spatially structured populations: empirical data and management applications	
2	5 Mar	Catch up, review for exam	
Week 8			
1	10 Mar	Midterm exam	
2	12 Mar	Terminology, concepts, and questions in community ecology	Morin 1
Week 9			
1	24 Mar	Interspecific competition: mechanisms, niche theory, and models	Morin 2, Got. 5
2	26 Mar	Interspecific competition: observations and experiments	Morin 3
Week 10			
1	31 Mar	Predation: modeling dynamics of predator and prey	Morin 5, Got. 6
2	2 Apr	Predation in communities: keystone predators and interaction strength	Morin 4
Week 11			
1	7 Apr	Food webs: local to landscape scales	Morin 6
2	9 Apr	Indirect effects in communities: intraguild predation to trophic cascades	Morin 8
Week 12			
1	14 Apr	Spatial subsidies: effects that transcend ecosystem boundaries	
2	16 Apr	Community assembly: rules, neutral models, or stochastic dynamics?	Morin 9
Week 13			
1	21 Apr	Plant succession: concepts and current directions – Dr. Patrick Martin	Morin 13, Got. 8
2	23 Apr	Spatial dynamics and island biogeography	Morin 11, Got. 7
Week 14			
1	28 Apr	Biological invasions and homogenization in communities	
2	30 Apr	Disturbance ecology – Dr. Will Clements, FWCB	
Week 15			
1	5 May	Causes and consequences of diversity: theory, empirical patterns, expts.	Morin 12
2	7 May	Conclusions and review	

*Spring
Break
(Mar 16-20)*

