Syllabus for Biology 105 Evolution online, Winter quarter 2017, University of California, Riverside, Professor Theodore Garland, Jr. Use this in conjunction with the syllabus information in the first class lecture and the first Discussion Day of Week Day Month Lect Disc Topic Reading/Assignment

Day of Week	Day Mont	h Lect	Disc	Topic	Reading/Assignment
Saturday Sunday	7 8	1 1 1		Course Introduction & further Syllabus information	
Monday		1 1		Course Introduction & further Syllabus information	
Tuesday		1		Pre-course Survey due Tuesday by 11:59 PM	
Wednesday Thursday		1 2 1	1	Introduction to Evolutionary Biology; 2-point essays due in iLearn by midnight Introduction to Biology 105 Evolution online	Chapter 1 from Futuyma (2013) Evolution. 3rd ed.
Friday		1		indoduction to Biology 105 Evolution online	
Saturday		1			
Sunday Monday		1 3 1		Natural Selection UCR Holiday	73-94 from Herron & Freeman (2014) Evolutionary analysis. 5th ed.
Tuesday	17	1 4		What are Phylogenies?	Chapter 4 from Bergstrom & Dugatkin (2012) Evolution. 2nd ed.
Wednesday		1 1	2	2-point essays due in iLearn by midnight	
Thursday Friday		1	2	Quiz 1 at start; Review of Lecture & Readings	
Saturday		1			
Sunday Monday		1 5 1		Inferring Phylogeny	Chapter 5 from Bergstrom & Dugatkin (2012) Evolution. 2nd ed.
Tuesday		1 6		Adaptation and the Comparative Method	Garland, T., Jr., and S. C. Adolph. 1994. Why not to do two-species comparative studies: limitations
					on inferring adaptation. Physiological Zoology 67:797-828.
Wednesday Thursday		1 1	2	2-point essays due in iLearn by midnight Paview of Leature & Paedings: Instructions for Paper Criticula	
Friday	20	1	3	Review of Lecture & Readings; Instructions for Paper Critique	
Saturday		1			
Sunday Monday		1 7 1		The Fossil Record and the History of Life on Earth	Student choice from the journal Paleobiology (see Discussion instructions)
Tuesday		1 8		Extinction and Evolutionary Trends	continued
Wednesday		2		2-point essays due in iLearn by midnight	
Thursday Friday		2 2	4	Paper Critique Due; Review for 1st Midterm Exam Take Midterm Exam 1 Online with ProctorU	
Saturday		2			
Sunday Monday		29 2		Transmission Genetics & Sources of Genetic Variation	Chapter 8 from Futuyma (2013) Evolution. 3rd ed.
Tuesday		2 10		Evolution in Finite Populations, Genetic Drift, etc.	Jeffery, W. R. 2009. Regressive evolution in Astyanax cavefish. Annual Review of Genetics
	0				43:25-47.
Wednesday Thursday		2 2	5	2-point essays due in iLearn by midnight Ouiz 2 at start; Review of Lecture & Readings	
Friday	10	2			
Saturday		2 2 11		Quantitative Genetics	Vitethum V. I. 2002. A number no exector then the sum of its marter the use and shuge of hemitability
Sunday	12	2 11		Quantitative Genetics	Vitzthum, V. J. 2003. A number no greater than the sum of its parts: the use and abuse of heritability. Human Biology 75:539-558.
Monday		2			
Tuesday	14	2 12		Selection Experiments & Experimental Evolution	Irschick, D. J., and D. Reznick. 2009. Field experiments, introductions, and experimental evolution: a review and practical guide. Pages 173-193 in Experimental Evolution: Concepts, Methods, and
					Applications of Selection Experiments. T. Garland, Jr. and M. R. Rose, eds. Univ. of California Press.
Wednesday	15	2		2-point essays due in iLearn by midnight	
Thursday		2	6	Heritability Exercise Introduction	
Friday Saturday		2			· · · · · · · · · · · · · · · · · · ·
Sunday		2 13		Sexual Selection	Andersson, M. 1982. Female choice selects for extreme tail length in a widowbird. Nature
Monday	20	2		UCR Holiday	299:818-820.
Tuesday		2 14		Trade-offs & Constraints	Garland, Jr., T. 2014. Quick Guide: Trade-offs. Current Biology 24:R60-R61.
Wednesday		2	_	2-point essays due in iLearn by midnight	
Thursday Friday		2 2	7	Heritability Exercise Data Analysis	
Saturday		2			
Sunday		2 15		Life History Evolution	Chapter 7 in Rose & Mueller (2006) Evolution and ecology of the organism.
Monday Tuesday		2 2 16		Cooperation, Conflict & Species Interactions	Chapter 21 from Barton et al. (2007) Evolution.
Wednesday	1	3		2-point essays due in iLearn by midnight	- · · · ·
Thursday Friday		3 3	8	Heritability Writeup Due; Review for 2nd Midterm Exam Take Midterm Exam 2 Online with ProctorU	
Saturday	4	3			
Sunday	5	3 17		Species and Speciation	The Marie Curie SPECIATION Network. 2012. What do we need to know about speciation? Trends
Monday	6	3			in Ecology & Evolution 27:27–39.
Tuesday		3 18		Hybrid Zones, Character Displacement, Geographic Variation, Clines	Grant, P. R., & Grant, R. 2006. Evolution of character displacement in Darwin's finches. Science
Wednesday	8	3		2-point essays due in iLearn by midnight	313:224-226.
Thursday		3	9	Quiz 3 at start	
Friday		3			
Saturday Sunday		3 3 19		Adaptive Radiation & Convergent Evolution	Losos, J. B., and D. L. Mahler. 2010. Adaptive radiation: the interaction of ecological opportunity,
2		- /			adaptation, and speciation. Pp. 381-420 in M. A. Bell, D. J. Futuyma, W. F. Eanes, and J. S.
N 1	12	2			Levinton, eds. Evolution since Darwin: the first 150 years. Sinauer Associates, Sunderland, Mass.
Monday Tuesday		3 3 20		Evo-Devo and Macroevolution	Chapter 19 from Herron & Freeman (2014) Evolutionary analysis. 5th ed.
Wednesday	15	3		2-point essays due in iLearn by midnight	
Thursday Friday		3 3	10	Review for Final Exam	
Friday Saturday		3 3 Sat		Last day of Instruction Final Exam Week	
Sunday		3 Sun		Final Exam Week	
Monday	20	3 Mon		Final Exam Week	
Tuesday	21	3 Tue		Final Exam Week	
Wednesday		3 Wed		Final Exam Week	
Thursday		3 Thu		Finals Exam for Biology 105 Evolution online	2-7 PM start time, and you have 3 hours to complete the exam in ProtcorU
Friday	24	3 Fri		Final Exam Week	