

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
Thursday	22	9	1	Introduction to Biology 105V, Pre-course Survey Explanation (due Sat. by 11:59 PM)	Course Survey Explanation, due Sat. 11:59 PM
Friday	23	9			
Saturday	24	9			
Sunday	25	9	1	Course Introduction & further Syllabus information (Garland)	Chapter 1 from Futuyma (2013) Evolution. 3rd ed.
Monday	26	9			
Tuesday	27	9	2	Introduction to Evolutionary Biology (Sachs)	Chapter 1 from Futuyma (2013) Evolution. 3rd ed.
Wednesday	28	9			
Thursday	29	9	2	Review of Lecture & Readings	
Friday	30	9			
Saturday	1	10			
Sunday	2	10	3	Natural Selection (Hayashi)	73-94 from Herron & Freeman (2014) Evolutionary analysis. 5th ed.
Monday	3	10			
Tuesday	4	10	4	What are Phylogenies? (Hayashi)	Chapter 4 from Bergstrom & Dugatkin (2012) Evolution. 2nd ed.
Wednesday	5	10			
Thursday	6	10	3	Quiz 1 at start; Review of Lecture & Readings	
Friday	7	10			
Saturday	8	10			
Sunday	9	10	5	Inferring Phylogeny (Hayashi)	Chapter 5 from Bergstrom & Dugatkin (2012) Evolution. 2nd ed.
Monday	10	10			
Tuesday	11	10	6	Adaptation and the Comparative Method (Garland)	Garland, T., Jr., and S. C. Adolph. 1994. Why not to do two-species comparative studies: limitations on inferring adaptation. <i>Physiological Zoology</i> 67:797-828.
Wednesday	12	10			
Thursday	13	10	4	Review of Lecture & Readings; Instructions for Paper Critique	
Friday	14	10			
Saturday	15	10			
Sunday	16	10	7	The Fossil Record and the History of Life on Earth (Sachs)	Student choice from the journal <i>Paleobiology</i> (see Discussion instructions)
Monday	17	10			
Tuesday	18	10	8	Extinction and Evolutionary Trends (Garland)	... continued ..
Wednesday	19	10			
Thursday	20	10	5	Paper Critique Due; Review for 1st Midterm Exam	
Friday	21	10		Take Midterm Exam 1 Online with ProctorU	
Saturday	22	10			
Sunday	23	10	9	Transmission Genetics & Sources of Genetic Variation (Sachs)	Chapter 8 from Futuyma (2013) Evolution. 3rd ed.
Monday	24	10			
Tuesday	25	10	10	Evolution in Finite Populations, Genetic Drift, etc. (Sachs)	Jeffery, W. R. 2009. Regressive evolution in <i>Astyanax</i> cavefish. <i>Annual Review of Genetics</i> 43:25-47.
Wednesday	26	10			
Thursday	27	10	6	Quiz 2 at start; Review of Lecture & Readings	
Friday	28	10			
Saturday	29	10			
Sunday	30	10	11	Quantitative Genetics (Garland)	Vitzthum, V. J. 2003. A number no greater than the sum of its parts: the use and abuse of heritability. <i>Human Biology</i> 75:539-558.
Monday	31	10			
Tuesday	1	11	12	Selection Experiments & Experimental Evolution (Garland)	Irshick, D. J., and D. Reznick. 2009. Field experiments, introductions, and experimental evolution: a review and practical guide. Pages 173-193 in <i>Experimental Evolution: Concepts, Methods, and Applications of Selection Experiments</i> . T. Garland, Jr. and M. R. Rose, eds. Univ. of California Press.
Wednesday	2	11			
Thursday	3	11	7	Heritability Exercise Introduction	
Friday	4	11			
Saturday	5	11			
Sunday	6	11	13	Sexual Selection (Garland)	Andersson, M. 1981. Female choice selects for extreme tail length in a widowbird. <i>Nature</i> 299:818-820.
Monday	7	11			
Tuesday	8	11	14	Trade-offs & Constraints (Garland)	Garland, Jr., T. 2014. Quick Guide: Trade-offs. <i>Current Biology</i> 24:R60-R61.
Wednesday	9	11			
Thursday	10	11	8	Heritability Exercise Data Analysis	
Friday	11	11			
Saturday	12	11			
Sunday	13	11	15	Life History Evolution (Sachs)	Chapter 7 in Rose & Mueller (2006) Evolution and ecology of the organism.
Monday	14	11			
Tuesday	15	11	16	Cooperation, Conflict & Species Interactions (Sachs)	Chapter 21 from Barton et al. (2007) Evolution.
Wednesday	16	11			
Thursday	17	11	9	Quiz 3 due at start; Heritability Writeup Due; Review for 2nd Midterm Exam	
Friday	18	11		Take Midterm Exam 2 Online with ProctorU	
Saturday	19	11			
Sunday	20	11	17	Species and Speciation (Sachs)	The Marie Curie SPECIATION Network. 2012. What do we need to know about speciation? <i>Trends in Ecology & Evolution</i> 27:27-39.
Monday	21	11			
Tuesday	22	11	18	Hybrid Zones, Character Displacement, Geographic Variation, Clines (Garland)	Grant, P. R., & Grant, R. 2006. Evolution of character displacement in Darwin's finches. <i>Science</i> 313:224-226.
Wednesday	23	11			
Thursday	24	11		None Thanksgiving Holiday	
Friday	25	11			
Saturday	26	11			
Sunday	27	11	19	Adaptive Radiation & Convergent Evolution (Garland)	Losos, J. B., and D. L. Mahler. 2010. Adaptive radiation: the interaction of ecological opportunity, adaptation, and speciation. Pp. 381-420 in M. A. Bell, D. J. Futuyma, W. F. Eanes, and J. S. Levinton, eds. <i>Evolution since Darwin: the first 150 years</i> . Sinauer Associates, Sunderland, Mass.
Monday	28	11			
Tuesday	29	11	20	Evo-Devo and Macroevolution (Sachs)	Chapter 19 from Herron & Freeman (2014) Evolutionary analysis. 5th ed.
Wednesday	30	11			
Thursday	1	12	10	Review for Final Exam	
Friday	2	12		Last day of Instruction	
Saturday	3	12	Sat	Finals - your exam day and time still to be determined; could be any of these days	
Sunday	4	12	Sun	Finals - your exam day and time still to be determined; could be any of these days	
Monday	5	12	Mon	Finals - your exam day and time still to be determined; could be any of these days	
Tuesday	6	12	Tue	Finals - your exam day and time still to be determined; could be any of these days	
Wednesday	7	12	Wed	Finals - your exam day and time still to be determined; could be any of these days	
Thursday	8	12	Thu	Finals - your exam day and time still to be determined; could be any of these days	
Friday	9	12	Fri	Finals - your exam day and time still to be determined; could be any of these days	