

Class Schedule

Topics in Zoology for Teachers (SMFT 538)

Don't print this page...just visit it every time you visit the course OAKS page!

- Because of the collaborative and discussion/activity based nature of this class, this syllabus is an “evolving” one! I cannot predict how deeply we will want to explore and discuss the concepts addressed in this course, nor can I predict difficulties, or misconceptions you may have throughout the semester. As a result, we may find it necessary to spend more time on a topic than originally planned. So visit the class schedule well in advance of each class to see where we are in the course, and your responsibilities for preparing for the next class.
- ASSIGNMENTS – are listed on the day they are due unless otherwise specified!
- READINGS/TUTORIALS are to be read before the start of that day's class.
- RATs will generally be over the reading assigned for that day's class, or concepts from the prior classes!

Date	Topic Lab Activity/Lecture	Reading/Tutorial (Chapter.section)	Homework
1-7	Nature of Science Termite Trails Lab Problem – The Evolution of Creationism Part I		
1-14	Evolution RAT - Over course information section of class web site Problem – The Evolution of Creationism Parts 2 Darwinian Snails – A Computer-based Simulation of Evolution	Textbook: Chapter 1 Readings: -Experimental Design; Descriptive Statistics and Graphing -Posts in Course Information Section of OAKS page -Evolution of Intelligent Design Part 2	-Termite Trails Rewrite – Due Dropbox folder on Jan 12! - Do Step 1 in Evol. of Intelligent Design Part 2 case study
1-21	Natural Selection & Nature of Science RATs The Irreducible Complexity Hypothesis – Does evidence for design exist in life's complexity?	Textbook: Chapter 18 Readings: Teaching About Evolution & the Nature of Science – Chapters 1-3	-Termite Trails Re-re-write is due Tuesday 1-23. -Practice Graphing Homework
1-28	Sexual Selection Evaluating Irreducible Complexity Lecture – Validity of Evolutionary Theory – Evidence & Predictions Are humans evolving through natural selection?	Miller & Behe Articles	Evolution of Creationism Learning Issues research – come to class ready to contribute to developing your team's position on this issue
Sat 1-30	Field Trip – Meet at Caw Caw County Park at 8:30 AM Case-Based Lab - The Evolutionary Genetics of Sickle Cell Anemia	Chapter 19	
2-4	Evolution: Evidence & Predictions (cont) Extinctions, Vestigial Structures. Fossil Evidence Visit to SSMB Natural History Museum	Rice Plantation History Reading	Part 5 – Sickle Cell Case Study Due to OAKS Dropbox folder on Feb 2
2-11	Systematics and Phylogeny Lab – Canimacule Phylogeny	-Textbook: Chapter 20 -Web Reading: Phylogeny 101 – review the pages up through “How we know what happened when”	
Sat. 2-13	Biodiversity – Beach Field Trip	Textbook Chapters 27-29	
2-18	Hominid Evolution		
2-25	Burning Issues: FMNF & Urban Sprawl – Field Trip to Francis Marion		Policy Statement Due to your Dropbox folder Feb 23.
Sat. 2-27	Burning Issues: FMNF & Urban Sprawl – Field Trip to Francis Marion National Forest	Chapter 45.6, 46, 47	
3-3	Midterm Progress Report The Web of Longleaf Pine Forest Life	See Key Concepts Study Guide on OAKS Textbook: Chapter 45.7 Looking for Longleaf: The Web of Life	
3-10	Spring Break – no class		
3-17	Case-Study - How can “Kindness” Evolve? – Altruism in Animals		
Sat.3-19	Biodiversity Exploration - Field Trip Harbor Cruise – Meet at Ft. Johnson Grice Marine Lab on James Is.		
3-24	Case-Study - How can “Kindness” Evolve? – Altruism in Animals Invasive Species Exploration		

3-31	The Evolution of Eusociality in Insects	Radiolab–Emergence – At least listen from the start until about 17:00 minutes into the program. Brembs, B. - Hamilton's Theory Scientists Square off...article,	
Sat 4-2	Field Trip – Salt Marsh Exploration		
4-7	Exploring Animal Circulation		
4-14	Open		
Sat 4-16	Field Trip - Audubon Swamp Gardens @ Magnolia Plantation – Low Country Freshwater Swamp Biodiversity		
4-21	Omnivore’s Dilemma DINNER Book Club Meeting		
4-28	Final Progress Report	Field Experiment Proposals Due	