

Schedule

Date	Week	Scenario (for required readings see http://bioweb-cfs.cas.okstate.edu/info/requiredreadings)	Lab Topic
11 Jan	1	1. Psychics and Scientists: A series of short scenarios will center on measurement of psychic phenomena, a faculty research question, a breath holding experiment, analysis of class score data, and what is a theory?	Introduction to Lab
18 Jan	M	Martin Luther King Holiday: No Class	
18 Jan	2	2. Surviving Fire and Ice: The scenario focuses on surviving in desert and tundra and adaptations for thermoregulation and water retention.	Investigation 1: Research in the Institute of Comparative Respiration Research
19 Jan		Last day to add and last day to drop with no grade	
25 Jan	3	3. Out of the Rain Forest: An aboriginal fishing expedition in the rain forest is explored in terms of the action of a toxin produced by plants. Pesticides, coevolution, cell membrane function and cell respiration will be discussed.	Investigation 1: Continued Research
1 Feb	4	Out of the Rain Forest continued.	Investigation 1: Continued Research
8 Feb	M	EXAM #1 at 5:30 pm in _____ - Topics for exams will be those from Scenarios 1-3	
8 Feb	5	4. Chemical Defenses: A Nigerian child eats a poisonous bean, which requires extraordinary treatment by the local physician, framing investigation of cell membrane structure, secretion, intercellular communication, and neurons.	Investigation 1: Final analysis & Submission
15 Feb	6	5. Marooned in the Galapagos: This trip raises questions about what makes a species or organism successful. Attention to the physical character of these desert islands and animals living there highlights natural selection in action.	Investigation 3: Research in the Biofuels Research and Aquatic Quality Collaborative
22 Feb	7	6. Rainbow Connection: A scuba diving botanist is sent by the Smithsonian to collect algae. Blood is spilled and the biological uses of colored light, including photosynthesis, are explored.	Investigation 3: Continued research
29 Feb	8	Rainbow Connection - continued.	Investigation 3: Final analysis & Submission
7 Mar	M	EXAM #2 at 5:30 pm. in _____ - Topics for exams will be those from Scenarios 1-6	
7 Mar	9	7. Emerging Diseases: On the Amazon we meet the Yanomami amidst a breaking TB epidemic, raising the roles of symbiosis, population dynamics and evolution in development of epidemics.	Investigation 2: Research in the Acme Brewing and Baking Company
14-18 Mar	10	Spring Break – No Classes	
21 Mar	11	Emerging Diseases continued	Investigation 2: Continued research
28 Mar	12	8. Family Reunion: A family reunion opens the door to talk about cancer, DNA, protein synthesis, genetically determined diseases and biotechnology.	Investigation 2: Final analysis & Submission
4 Apr	13	Family Reunion continued	Investigation 4: Research in the Center for the Study of Sexual Selection in Fishes
8 Apr	F	Last day to drop with automatic W	
11 Apr	M	EXAM #3 at 5:30 pm in _____ - Topics for exams will be those from Scenarios 1-8	
11 Apr	14	9. Hogs & Chickens: Statistics about concentrated animal feeding operations raise questions about nutrients in biogeochemical cycles, the effects of livestock and people on aquatic systems.	Investigation 4: Continued research
18 Apr	15	10. Why We Care about Fat: our contemporary preoccupation with fat sets the scene for a discussion of fat metabolism, its genetic, nervous and hormonal control, and behavioral implications.	Investigation 4: Final analysis & Submission
25 Apr	16	Why We Care about Fat continued.	Laboratory Final
5 May	R	FINAL EXAM at 4:00 – 5:50 pm in _____ Topics for exams will be those from All Scenarios Note the Exam time!!!	