

Schedule

Date	Week	Scenario	Lab Topic
17 Aug	1	Psychics and Scientists: A series of short scenarios will center on such activities/topics as measurement of psychic phenomena, a faculty research question, a breath holding experiment, analysis of class score data, and what is a theory?	1. Why are larger individuals of a particular species eaten more frequently than smaller ones?
24 Aug	2	Surviving Fire and Ice: The scenario focuses on surviving in desert and tundra and adaptations for thermoregulation and water retention.	2. Why are animals shaped differently in cooler climates than in warmer ones?
24 Aug		Last day to drop with no grade	
31 Aug	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.	3. Why do certain animals eat more at certain temperatures than others or than they do at other temperatures?
7 Sep	M	Labor Day: No Class	
7 Sep	4	Out of the Rain Forest continued.	4. Why is diffusion through a membrane faster sometimes?
14 Sep	M	EXAM 1 at 5:30 pm in [ROOM] –Topics for exams will be those from Scenarios 1-3	
14 Sep	5	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.	5. Why do certain cells contain more of certain structures than do others?
21 Sep	6	Chemical Defenses continued. 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.	6. Why do certain finches survive and reproduce more than others under various conditions of food availability?
28 Sep	7	Marooned in the Galapagos continued. 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.	7. Why do plants grow better under certain lighting conditions than others?
5 Oct	8	Rainbow Connection continued	No Lab
9 Oct	F	Fall Break! No classes	
12 Oct	9	Rainbow Connection continued. 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.	8. Why do plants transpire water faster under certain environmental conditions?
19 Oct	M	EXAM 2 at 5:30 pm in [ROOM] –Topics for exams will be those from Scenarios 1-6	
19 Oct	10	Emerging Diseases continued.	9. Why do some populations of bacteria become resistant to antibiotics?
26 Oct	11	Family Reunion: A family reunion opens the door to talk about cancer, DNA, protein synthesis, genetically determined diseases and biotechnology.	10. Why can some bacteria produce a color that others cannot?
2 Nov	12	Family Reunion continued	11. Why is a new population of people exhibiting disease symptoms?
6 Nov	F	Last day to drop with automatic W	
9 Nov	13	Hogs & Chickens: Statistics about concentrated animal feeding operations raise questions about nutrients in biogeochemical cycles, the effects of livestock and people on aquatic systems and the history of sewage.	12. Why are invertebrate species disappearing from Clearwater Creek?
16 Nov	M	EXAM 3 at 5:30 pm in [ROOM] –Topics for exams will be those from Scenarios 1-8	
16 Nov	14	Hogs & Chickens continued. 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.	13. Why is there less oxygen in some streams than others?
23 Nov	15	Hogs and Chickens continued.	No Lab
25-27 Nov	W-F	Thanksgiving Break: No Classes	
30 Nov	16	Why We Care about Fat continued.	14. Why do some guppies attract more mates than others?
10 Dec	R	FINAL EXAM at 12:00-1:50 pm in [ROOM] – Topics for exams will be from all scenarios	

