Schedule

Date	Week	Scenario	Lab Topic
June 6-7	1	**Psychics and Scientists**: A series of short scenarios will center on distinguishing science from non-science, a faculty research question, analysis of class score data, and what is a theory?	Tu: **No Lab – Assignment:** Read Guide to Success section (ppG1-G48) in the lab manual.
June 8-9		**Surviving Fire and Ice**: The scenario focuses on surviving in desert and tundra and adaptations for thermoregulation and water retention.	Thu: Intro Lab – Have assignment completed **prior to attending lab**.
June 13-16	2	**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, and cell respiration will be discussed.	Tu: Investigation 1: Institute of Comparative Respiration Research. Focus on Thermoregulation, Body Shape Size & Shape using Clay Models.
			Thu: Investigation 1: Continue Research
June 20	**3**	**Exam #1 – Covers Topics from Scenarios 1-3**	
June 21-22		**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.	Tu: Investigation 1: Final Analysis & Submission
June 23		**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.	Thu: Investigation 1: Institute of Comparative Respiration Research. Focus on Respiration & Metabolism
June 27-28	4	**Marooned in the Galapagos (continued)**	Tu: Investigation 1: Continue Research
July 29-30		**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.	Thu: Investigation 1: Final Analysis & Submission
July 4	**5**	**University Holiday – No Classes**	
July 5		**Exam #2 – Covers Topics from Scenarios 1-6**	Tu: Investigation 2: Research in the Acme Brewing & Baking Company
July 6-7		**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.	Thu: Investigation 2: Continue Research
July 11-14	6	**Family Reunion**: A family reunion opens the door to talk about cancer, DNA, protein synthesis, genetically determined diseases and biotechnology.	Tu: Investigation 2: Final Analysis & Submission
July 15		**Last day to drop with "W"**	Thu: Investigation 3: Biofuels Research & Aquatic Quality Collaborative. Focus on Water Quality research.
July 18	**7**	**Exam #3 – Covers Topics from Scenarios 1-8**	
July 19-21		**Hogs & Chickens**: Statistics about concentrated animal feeding operations raise questions about nutrients in biogeochemical cycles, the effects of livestock and people on aquatic systems.	Tu: Investigation 3: Continue Research
			Thu: Investigation 3: Final Analysis & Submission
July 25-26	8	**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.	Tu: Laboratory Final
July 27		**Review**	
July 28		**Final Exam – Covers Topics from all Scenarios**	Thu: **No Lab**