Biol 1409: General Biology - The Diversity of Life

Lecture and Lab Schedule (Ziser: Spring, 2019; RVS Section 68823-009)

Wk	Date	Lecture Topic	Lab Topic
1	Jan 21 Jan 23	**MLK day - Holiday** Introduction to Biodiversity,	**MLK day - Holiday** Introduction; Lab Safety, Scavenger Hunt
2	Jan 28 Jan 30	Scientific Method, Taxonomy Defining Science, Characteristics of Life	Microscope and Dissecting Scope, wet mounts Taxonomy & Classification
3	Feb 4 Feb 6	Ecology & Evolution Origins of Life	Cells: The Basic Units of Life Kinds of Reproduction: Asexual & Sexual
4	Feb 11 Feb 13	**EXAM I: Life - Its Diversity, Characteristics & Evolution** Bacteria - The Simplest Cells	Development & Growth; Make Bacteria Cultures Collecting, Culturing and Identifying Bacteria
5	Feb 18 Feb 20	Bacteria – How they work Bacterial Diversity, Viruses	Bacterial Form, Symbioses & Pathogens Bacteria (cont.); Begin Protists
6	Feb 25 Feb 27	Protists: Algae, Protozoa and Slime Molds “ “ “ “ “ “ “	Protists: The Algae Protists: Seaweeds & Protozoa
7	Mar 4 Mar 6	Fungi, the decomposers; form and function Fungal Diversity; Infectious Diseases	Protists: Slime Molds & Water Molds; Culture Fungi Recognizing, Collecting and Culturing Fungi
8	Mar 11 Mar 13	**EXAM II: Bacteria, Protists & Fungi** An Introduction to Plants: cells, tissues, organs	Kinds of Fungi and fungal spores **Practical I: Bacteria, Protists & Fungi**
9	Mar 18 Mar 20	**Spring Break**	**Spring Break**
10	Mar 25 Mar 27	Plant Diversity: mosses, ferns Plant Diversity: Conifers	Plant cells, tissues and organs “ “ “ “
11	Apr 1 Apr 3	Plant Diversity: Flowering Plants Plant Physiology: How Plants Work - transport, hormones, etc	Identifying common trees and shrubs, Mosses Plant Diversity: Ferns & Conifers
12	Apr 8 Apr 10	Ecology and Economics of Plants **EXAM III: Plants**	Plant Diversity: Flowering Plants – Vegetative Organs Plant Diversity: Flowering Plants - Reproductive Organs; Symbioses
13	Apr 15 Apr 17	Introduction to Animals; cells, tissues, organs Animal Diversity: simple animals	**Practical II: Plants** Animal Cells, Tissues, Organs, & Systems
14	Apr 22 Apr 24	Animal Diversity: worms, shelled animals Animal Diversity: parasites	Animal Diversity: Simple Animals & Animal ID Animal Diversity: Worms and Shelled Animals
15	Apr 29 May 1	Animal Diversity: arthropods Animal Diversity: echinoderms, fish	Animal Diversity: Parasitic Animals, begin Arthropods Animal Diversity: Arthropods (cont);
16	May 6 May 8	Animal Diversity: amphibians, reptiles Animal Diversity: birds, mammals	Animal Diversity: Echinoderms, Vertebrates – Fish Animal Diversity: Vertebrates - Amphibians & Reptiles
17	May 13 May 15	Animals: Ecology, Economics & Human Evolution **EXAM IV: Animals**	Animal Diversity: Vertebrates - Birds & Mammals **Practical III: Animals**