

Biol 1409: Biology: The Diversity of Life
Lecture and Lab Schedule (Ziser: Fall, 2018; SAC Section 59287-004)

Wk	Date	Lecture Topic	Lab Topic
1	Aug 28 Aug 30	Introduction to Biodiversity Scientific Method, Taxonomy, Characteristics of Life	Introduction; Making Observations: Recording What You See Microscopy & Microscopic Life
2	Sept 4 Sept 6	Introduction to Ecology Evolution	Taxonomy & Classification Cells: The Basic Units of Life
3	Sept 11 Sept 13	Origins of Life EXAM I: Life, Diversity, Ecology & Evolution	Kinds of Reproduction: Asexual & Sexual Development & Growth; Making Bacterial Cultures
4	Sept 18 Sept 20	Bacteria –The simplest cells Bacterial Diversity	Collecting, Culturing and Identifying Bacteria Bacterial Form, Symbioses & Pathogens
5	Sept 25 Sept 27	Bacterial (con.'t), Viruses Protists: Algae, Protozoa & Slime Molds	Finish Bacteria; begin Protists Protists: Introduction, the Algae
6	Oct 2 Oct 4	(Protists (con.'t) Fungi, the decomposers; form and function	Protists: Protozoa Protists: Seaweeds & Slime Molds
7	Oct 19 Oct 11	Fungal Diversity EXAM II: Bacteria, Protists, Fungi	Recognizing, Collecting and Culturing Fungi Kinds of Fungi & Fungal Spores
8	Oct 16 Oct 18	An Introduction to Plants – cells, tissues, organs Plant Diversity – mosses, ferns, conifers	Practical I: Bacteria, Protists & Fungi Plant Cells, Tissues, Organs and Life Cycles
9	Oct 23 Oct 25	Plant Diversity – flowering plants How Plants Work: Plant Physiology	Plant Organs; Identifying Common Trees & Shrubs Plant Diversity: Mosses, Ferns & Conifers
10	Oct 30 Nov 1	Plant Physiology (cont) Ecology and Economics of Plants	Plant Diversity: Flowering Plants – Introduction Flowering Plants – Modified Vegetative Organs
11	Nov 6 Nov 8	EXAM III: Plants Introduction to Animals – cells, tissues, organs, organ systems	Flowering Plants – Reproductive Organs – Flowers, Fruits & Seeds Practical II: Plants
12	Nov 13 Nov 15	Animals Diversity – simple animals Animal Diversity – worms, shelled animals	Animal Cells, Tissues, Organ Systems & life cycles Animal Diversity: Simple Animals & Animal ID
13	Nov 20 Nov 22	Animal Diversity - parasites, begin arthropods Holiday	Animal Diversity: Worms and Shelled Animals Holiday
14	Nov 27 Nov 29	Animal Diversity – arthropods Animal Diversity – echinoderms, fish	Animal Diversity: Parasites, begin Arthropods Animal Diversity: Arthropods (con.'t)
15	Dec 4 Dec 6	Animal Diversity – amphibians, reptiles Animal Diversity – birds, mammals	Animal Diversity: Echinoderms, Begin Vertebrates - Fish Animal Diversity: Vertebrates – Fish (con.'t), Amphibians, Reptiles
16	Dec 11 Dec 13	Animals: Ecology & Economics; The Evolution of Us EXAM V	Animal Diversity: Vertebrates – Birds, Mammals Practical III: Animals