



BSC 1011L: PRINCIPLES OF BIOLOGY II LABORATORY

Class Schedule

Date (week of)	<u>Assignment</u>	<u>Lab Manual</u>
	*= herbarium sheets **=live specimens (may also be prepared slides)	
Sept. 1	Lab safety, Introduction, Classification, Microscope	
1-Sep	LAB 1: Kingdom Bacteria: Cyanobacteria	1-7; 11-16
	<i>Mixed bacteria, **Nostoc sp., **Cylindrospermum sp., **Oscillatoria sp., **Anabaena sp., **Gloeocapsa sp., root nodules</i> Phylum Cyanobacteria	
Sept.8	LAB 2: Protista: Algae, Protozoa, Slime Molds	17-40
	<u>Plant-like (Algae)</u> Phylum Chlorophyta (<i>Chlamydomonas sp., *Ulva sp., **Spirogyra sp. conj., **Volvox sp., Chara sp., **Zygnema sp.</i>) Phylum Rhodophyta (<i>*Porphyra sp., Corallina sp., **Ectocarpus sp., **Polysiphonia sp.</i>) Phylum Phaeophyta (<i>*Fucus sp., Sargassum sp., Laminaria sp.</i>) Phylum Euglenida (<i>**Euglena sp.</i>) Phylum Bacilliarophyta (Diatoms)	
	<u>Animal-like (Protozoans)</u> Phylum Rhizopoda (<i>**Amoeba sp.</i>) Phylum Foraminifera (<i>Forams</i>) Phylum Kinetoplastea (<i>Trypanosoma sp.</i>) Phylum Ciliophora (<i>**Paramecium sp. conj. & fission</i>) Phylum Apicomplexa (<i>Plasmodium sp.</i>)	
	<u>Fungi-like (Slime Molds)</u> Phylum Dictyostelia (<i>**Physarum sp.</i>)	
Sept.15	LAB 3: Kingdom Fungi; Kingdom Plantae: Nonvascular Plants	41-54 55-64
	<u>Fungi</u> Phylum Chytridiomycota (<i>**Allomyces sp.</i>) Phylum Zygomycota (<i>**Rhizopus sp.</i>) Phylum Ascomycota (<i>**Peziza sp., **Sordaria sp., **Saccharomyces sp., Morchella sp., Claviceps sp., **Penicillium sp., **Aspergillus sp.</i>) Phylum Basidiomycota (<i>Coprinus sp., Ustilago sp.</i>)	

	Annelida, Mollusca	147-153
	Earthworm dissection	156-157
	LAB 9: Kingdom Animalia: Arthropoda	161-174
	Homework #8 due	
	Grasshopper mouthparts	170
	Crayfish appendages	
Nov.10	LAB 10: Kingdom Animalia: Echinodermata, Chordata	175-194
Nov.17	LAB 11: Kingdom Animalia: Chordata-skeletons	
	Amphibian skeleton	
	Rat skeleton	214-215; 218
	Human skeleton	Handout
Nov.17	LAB 12: Kingdom Animalia: Chordata-dissections, external anatomy, internal anatomy, digestive, urogenital, circulatory systems	
	Rat dissection	223-226
Nov.24	No Classes—Thanksgiving holiday	
Dec.1	FINAL PRACTICAL EXAM (100 points)	