



## BSC 1011L: PRINCIPLES OF BIOLOGY II LABORATORY

### Class Schedule

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



|         |  |                                    |
|---------|--|------------------------------------|
|         | Crayfish appendages  | 170                                |
| Aug. 3  | <b>LAB 10: Kingdom Animalia: Echinodermata, Chordata</b>   | 175-194                            |
| Aug. 10 | <b>LAB 11: Kingdom Animalia: Chordata-skeletons</b><br>Homework #10 due<br>Amphibian skeleton<br>Rat skeleton<br>Human skeleton<br><b>LAB 12: Kingdom Animalia: Chordata-dissections,</b><br><b>external anatomy, internal anatomy, digestive, urogenital, circulatory systems</b><br>Rat dissection | 214-215; 218<br>Handout<br>223-226 |
| Aug. 17 | <b>FINAL PRACTICAL EXAM (100 points)</b>   |                                    |

