

## Biology 112 Course Outline

### **Unit 1: The Cell**

**Topics:** 1. Development of cell theory, text sections 1-2, 7-1. 2. Microscope use, text section, Appendix D. 3. A closer look at cells, text sections 7-1, 7-2, 7-4. 4. Photosynthesis and respiration, text sections 8-1, 8-2, 8-3, 9-1, 9-2. 5. Cell membrane, text section 7-3..

**Quick Lab**, page 180

**Quick Lab**, page 206

**Quick Lab**, page 231

**Quick Lab**, page 187

**Exploration**, page 194-195

**Analyzing Data**, page 213

**Analyzing Date**, page 188

### **Unit 2: Biodiversity**

**Topics:** 1. Principles of Taxonomy, text sections 18-1, 18-2, Appendix F. 2. Characteristics of major groups, text sections 1-3, 19-2, 18-3, Appendix E. 3. Detailed look at plants and animals, text sections 22-1, 22-2, 22-3, 22-4, 22.5, 25-2, 25-3, 29-1, 29-2, 28-1, 28-2, 30-1, 33-1, 33-2, 33-3.

4. Biodiversity within ecosystems, text sections 6-3, 5-3, 6-1.

**Writing in Science**, page 450

**Quick Lab**, page 453

**Quick Lab**, page 613

**Quick Lab**, page 640

**Quick Lab**, page 153

**Grasshopper Dissection**

**Earthworm Dissection**

**Frog Dissection**

**Real World Lab**, page 462-463

**Technology and Society**, page 456

**Writing in Science**, page 731

**Analyzing Data**, page 855

### **Unit 3: Maintaining Dynamic Equilibrium**

**Topics:** 1. Homeostasis, text sections 35-1, Digestive system, text sections 2-3, 38-1, 2-4, 38-2, 38-3  
2. Circulatory system, text sections 37-1, 37-3. 3. Respiratory system, text sections 40-3. 4. Immune system, text sections 40-1, 40-2, 40-3.

**Thinking visually**, page 896

**Quick Lab**, page 982

**Quick Lab**, page 960

**Analyzing Data**, page 51

**Design an Experiment**, page 54

**Summative Assessment 70%**

**Final Evaluation 30%**