

# Biology 122: Course Outline

## Unit 1: Genetic Continuity

**Topics:** 1. Mitosis and Cellular Division. Pages 244-252, 1052-1053. 2. Meiosis and the Production of Gametes. Pages 275-278, 341, 352-353. 3. Gene expression: Protein Synthesis and Genetic Mutation. Pages 300-308, 344-348. 4. Mendelian Genetics. Pages 262 -274, 344. 5. Inheritance. Pages 341-343, 349-352 6. Genetic Engineering/Human Genomics. Pages 322-333, 355-360 .

**Analyzing Data**, pages 249, 1053.

**Exploration**, pages 254-255.

**Technology and Society**, page 253.

**Quick Lab**, page 303.

**Writing in Science**, page 308.

**Quick Lab**, page 268.

**Problem Solving**, page 271.

**Problem Solving**, page 343

**Quick Lab**, page 351.

**Quick Lab**, page 326.

**Issues in Biology**, page 330, 354.

**Real World Lab**, page 361.

## Unit 2: Evolution, Change and Diversity

**Topics:** 1. Evolutionary Theory, pages 368-386. 2. Mechanisms and Patterns of Evolution, pages 392-410, 435-439.

**Quick Lab**, page 379.

**Exploration**, page 387

**Quick Lab**, page 401.

**Issues in Biology**, page 403.

**Analyzing Data**, page 408.

**Analyzing Data**, page 438.

**Exploration**, page 441.

## Unit 3: Maintaining Dynamic Equilibrium II

**Topics: Nervous and Endocrine Systems.** 1. Neuron Structure and Function, pages 897-900. 2. Central and Peripheral Nervous Systems, pages 901-904, 910-914. 3. The Brain, the Eye and the Ear, pages 901-903, 906-909. 4. Glands and Hormone Actions, pages 996-1008. 5. Homeostasis and Feedback Mechanisms, pages 1000-1002. **Human Reproduction.** 1. Male and Female Reproductive Systems, pages 1009-1014. 2. Fertilization, Development, and Childbirth, pages 1016-1023. 3. Reproductive Technologies and Ethical Considerations.

**Quick Lab**, page 903, 905.

**Analyzing Data**, page 913.

**Explorations**, page 1025.

**Final Mark = 70% Summative Assessment+30% Final Assessment**

**Note:** Three tardies counts as one absence. If you miss 7 days or fewer in all classes and have completed all the requirements for the course, including a passing grade, you may choose to take 15%, 30% or 50% on your final assessment, whichever gives you the highest grade.