

Course Title: Advanced Placement Biology **Board Approval Date:** June, 2010
Credit: 1 credit

Course Description:

This course focuses on mastery of the topics provided by the collegeboard. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. The eight major themes in biology (science as a process; evolution; energy transfer; continuity and change; structure and function; regulation; interdependence; and science, technology and nature) are interwoven throughout the course and during the lab activities. We relate each of the overarching topics (molecules and cells, heredity and evolution, organisms and populations) to the major unifying themes (listed above) with special emphasis throughout the course on evolution as the overall unifying principle.

Learning Activities / Modes of Assessment:

Large group instruction	Tests and Quizzes
Laboratory experiments	Checklists / Teacher Observation
Small group work	Projects with Rubrics
Computer simulations	
Lab Journals / Write-ups	

Instructional Resources:

Campbell, Neil A., Reece, Jane B. *Biology* 7th ed., New York, NY: Pearson 2005
Appropriate Internet resources

Course Pacing Guide

Course: Advanced Placement Biology

Course Unit (Topic)

*Length of Instruction

*(Varies slightly depending on school start and AP test date.)

1. Evolutionary Biology	7 Days
2. Ecology	10 Days
3. Chemistry of Life	8 Days
4. Cells	6 Days
5. Cellular Energetics	11 Days
6. Cell Division and Reproduction	1 day & outside of class
7. Heredity (Mendelian Genetics)	6 Days
7. Molecular Genetics	7 Days
8. Diversity of Organisms	2 days & outside class
9. Plants	6 Days
10. Animals	12 Days