

**Course Title:** Honors Biology  
**Credit / Hours:** 1 credit

**Board Approval Date:** June, 2010

**Course Description:**

This course focuses on mastery of the PA Academic Standards for Science and Technology with a concentration on the Keystone Biology Assessment Anchors. As students progress through this course they will participate in a systematic study of living things at the cellular and molecular levels. An emphasis will be placed on the structures and processes necessary for all organisms to maintain life.

**Learning Activities / Modes of Assessment:**

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

**Instructional Resources:**

*BSCS Biology: A Molecular Approach* (Glencoe, 2006; e-version license through 2010)  
Appropriate Internet resources

# Course Pacing Guide

Course: Honors Biology

Course Unit (Topic)	Length of Instruction (Days/Periods) (Every other day/ 80 minute periods)
1. Scientific Method	3 Days
2. Chemical Basis of Life	9 Days
3. Cells	16 Days
4. Energy	15 Days
5. Cell Division and Reproduction	9 Days
6. Mendelian Genetics	14 Days
7. Molecular Genetics	8 Days
8. Ecology	5 Days
9. Evolution	5 Days