

AP Biology

COURSE DESCRIPTION

This rigorous course is designed to be the equivalent of a college introductory biology course. It is typically taken by students that have a strong interest in, or desire to pursue a career in, the sciences. Topics covered include biochemistry, cells, photosynthesis, respiration, heredity, molecular, genetics, evolution, diversity of life, plant and animal form and function, and ecology. Laboratory work is an integral component in this class. This course follows the College Board Advanced Placement syllabus and students are strongly encouraged to take the National College Board exam in May.

PREREQUISITS

"B" or better in Biology & completion or concurrent registration in Chemistry I

TEXTS

Campbell, Neil A., J. Reece, and L. Mitchell. *Biology*, 5th edition (1999), Addison Wesley.
*Scheduled for new books in 2007-2008

Various Additional Readings as Assigned.

COURSE OVERVIEW

Our Advanced Placement (AP) Biology course was implemented in the 1999-2000 school year. Enrollment is typically less than 20 students, therefore only one section is offered. We meet for an extended class period consisting of 75 minutes. Each day class time is divided among lecture, discussion, and lab. Students spend about 20 minutes per day in the lab reinforcing material learned during lectures. This is in addition to the regularly scheduled lab days, accumulating to nearly one third of the class time. Lectures are presented in our science department's multimedia lab using PowerPoint, Shockwave animation, video clips, and a document camera. Students are provided skeleton outlines.

8. Lysosomes _____

9. Nucleolus _____

** Create your own analogy of the cell using a different model. Some ideas might be: a school, a house, a factory, or anything you can imagine**