

Biology, Honors Biology and AP Biology

Course Overview:

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. The topics include Scientific Inquiry, Heredity, Evolution, Cells and Diversity and Interdependence of Life. The course uses laboratory approach to help students understand the topics presented in class. Oral and written reports may be required. Not recommended for students who achieved less than a "B" in 8th grade science. The student is responsible for having a notebook. Dissecting various organs and organisms is required. All students in this class will be required to take the State Test in Biology. This class meets seven periods per week for ½ unit of credit each semester

Honors Biology-This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. The topics include Scientific Inquiry, Heredity, Evolution, Cells and Diversity and Interdependence of Life. The course uses a laboratory approach to help the student understand the areas presented in class. Additional work done out of the classroom including reports and projects during the school year and assigned summer reading is required. Prerequisites: Students will be recommended by their 8th grade science teacher and should have successfully completed Algebra I as an 8th grader. Dissecting various organs and organisms is required. All students in this class will be required to take the State Test in Biology.

AP Biology (11, 12) -- 2 semesters -- .50 credit each semester

This program provides an opportunity for high school students to pursue and receive credit for college level Biology course work while in high school. In order to give the students this opportunity, the course is designed to meet the expectations set forth by the *AP Biology Course Description and the AP Biology Learning Objectives* which can be found at www.apcentral.collegeboard.com. The AP Biology course is designed to provide a comprehensive first-year college biology experience, both conceptually and in the laboratory. The three main areas of study are molecules and cells (chemistry, cells, and cell energetics), heredity and

evolution (heredity, evolution, and molecular genetics), and organisms and populations (diversity, structure, and function of plants and animals, and ecology). Emphasis is placed on problem solving and critical thinking skills. Students are required to take the AP Biology exam. **Prerequisites:** Regular or Honors Biology, and Chemistry or concurrent with Chemistry, and recommendation of science staff. *This class meets eight periods per week for ½ unit of credit each semester.*

Textbooks:

Assessments:

Formative and summative assessments using classwork, lab work, homework, projects and tests

OST Biology Assessment

Teacher Created Assessments

AP Exam

[CLICK HERE](#) for Biology Standards and Learning Goals: