

**Pecos High School
Biology 9-12
Syllabus**

August 27: The student is expected to plan a lab using the steps of scientific method.

Lab will include collecting information, organizing and analyzing data and drawing conclusions.

September 3: Student will identify the parts of plant and animal cells (eukaryotic) and bacterial cells (prokaryotic).

Investigate and identify cellular processes such as energy production and the movement of molecules into and out of the cell.

September 10: The student will identify the structure of atoms, molecules, elements, and compounds and how these molecules enter and leave a cell.

September 17: The student will compare the energy processes of photosynthesis and cellular respiration.

The student will investigate how these energy cycles flow from organism to organism.

September 24: The student will describe the parts of a DNA molecule and how genetic information is carried in the DNA.

The student will also identify how changes in DNA can cause mutations in plants and animals.

October 1: The student is expected to explain DNA replication(how DNA copies itself) and how proteins are made by DNA.