

Hahnville High School

Advance Placement Program

Biology



Recommendations
for course

PREREQUISITE

Students should have successfully completed high school courses in biology and chemistry

COMMITMENT

Students must be willing to commit time to this course beginning with completion of a **summer assignment** due prior to the start of the course Fall semester.

INTERNET ACCESS

Homework assignments and research.

About the class....

AP Biology is an introductory college-level **biology** course. Students cultivate their understanding of **biology** through inquiry-based investigations.

The course is based on four Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about living organisms and biological systems. The following are Big Ideas: • The process of evolution explains the diversity and unity of life. • Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis. • Living systems store, retrieve, transmit, and respond to information essential to life processes. • Biological systems interact, and these systems and their interactions possess complex properties.

Homework/Classwork

Classwork includes college-style lecture of notes, text book reading, research, concept reinforcement practices, and collaborative student projects. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

Hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.

Standard homework assignments are completed through a course online website with access to an online textbook.