

Course Name: AP Biology

Duration: 1 Semester Full Year

Grade Level: 9th 10th 11th 12th (check all that apply)

Are there any prerequisites for the course?

1 Year of Chemistry (can be Honors Chemistry, General Chemistry, AP Chemistry, or the chemistry section from Honors 9th Physics)

1 Year of Biology – (General Biology or Honors Biology)

*In rare cases, there may be exceptions to pre-requisites and grade requirements , but these must be discussed with the instructor in advance.

WHAT this course is about:

AP Biology is a year-long biology course covering the fundamentals of biology at a level roughly equivalent to a freshman college course. Students will develop a thorough understanding of fundamental biology concepts through in-class instruction, activities, and lab investigations. Concepts taught in class are connected to real-world topics such as medicine, environmental biology, biotechnology, and human physiology. This course prepares students for the AP Biology test and for science courses at the college level.

WHY take this course:

This course should be taken by anyone interested in the medical or biological sciences in general, or anyone who wants to learn more about biology in general. You don't have to be considering a career in the sciences to take this course. Students who pass the AP Biology test may also be able to bypass first year biology in college (this may be dependent on the school you are applying to).

WHAT you'll learn:

- Deep understanding of fundamental and advanced biology concepts
- Experimental design and lab skills
- How to statistically analyze some types of data
- How to prepare yourself for success in for college-level science courses
- Critical thinking and problem-solving skills

WHAT you'll do:

- Participate in hands-on science investigations such as genetically modifying bacteria and working with DNA
- Work collaboratively with others in a variety of thinking, processing, and hands-on activities.

WHERE this could take you:

Successfully completing AP Biology will prepare you for college level science courses and give you foundational study skills and habits that will help you in non-science related courses as well. Students interested in the sciences in general will learn about a number of career fields where the study of biology is relevant and may find themselves developing an interest in topics they knew very little about before the course. Students who have taken AP Biology can move on to any AP science course they may be interested in. AP Biology is an excellent choice to take alongside our 3rd year Biomedical Sciences course and is highly recommended for any student in the Biomedical Sciences program.

OPTIONAL Course Outline (“scope and sequence”, sequence chart, etc.)

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