

# AP Biology Information

Welcome to AP Biology. This can be a challenging course, but you can do it with the proper effort. If you are willing to make this effort, you will be rewarded with an increased understanding of science and nature (and possibly college credit!) While there is no written summer work for this class, you are expected to be familiar with most of the basic topics from Biology I.

A basic outline of the course is below. You should receive a textbook at registration, but you do not need to bring this to class. We will use it mainly as a reference for work at home.

A variety of laboratory investigations and activities will be performed throughout each of the above units. Approximately the final three weeks of the course will be spent reviewing and directly preparing for the AP exam. It will be administered in May of 2019. All students in the class must take this exam.

I look forward to having you in my class. Feel free to contact me if you ever have any questions. You may email me at [garydubose@pickens.k12.sc.us](mailto:garydubose@pickens.k12.sc.us)

## AP Biology Course Outline 2017-2018

Text: Campbell, *Biology in Focus*, 2<sup>nd</sup> Edition

### General Topics

Basic Biochemistry and Types of Biological Compounds

Cells, Cell Processes, and Osmosis

Photosynthesis and Cellular Respiration (Energy in living systems)

Cell Division (Mitosis, Meiosis, and Plant Life Cycles)

Genetics (Mendelian, Non-Mendelian, and Population Genetics)

Molecular Genetics (Protein Synthesis and DNA Technology)

Macroevolution and Phylogeny

Ecology (Biomes, Succession, and Population Ecology)

Human Physiology (especially Nerve Transmission and the Endocrine System)