# CP Biology – Course Information

Welcome to CP Biology! We will cover the concepts of biology in depth. Some of the main topics include: Cells, Biochemistry, Genetics, Evolution, the Six Kingdoms and Ecology. There will be less of an emphasis on memorizing facts, though a thorough knowledge of the vocabulary is required. The goal is for the students to analyze, create, and evaluate scientific information. These are higher level thinking skills.

To achieve these goals a variety of instructional methods will be used. Students will work in small groups to complete laboratory activities. Computer assisted instruction, use of graphing software, and web research are integral parts of instruction. Directed reading of science materials will also be included. Also, students should be active learners in class. Discussions and questions related to curriculum are encouraged**.**

**Topics of Study:**

The following are a list of chapters that are referenced throughout the course. Some chapters are covered completely, but for others, selected topics will be used.

Chapter 1: The Science of Biology

Chapter 2: The Chemistry of Life

Chapter 7: Cell Structure and Function

Chapter 8: Photosynthesis

Chapter 9: Cellular Respiration and Fermentation

Chapter 10: Cell Growth and Cell Division (Mitosis)

Chapter 11: Introduction to Genetics and Meiosis

Chapter 12: DNA

Chapter 13: RNA and Protein Synthesis

Chapter 16: Darwin’s Theory of Evolution

Chapter 17: Evolution of Populations

Chapter 19: History of Life

Chapter 3: The Biosphere

Chapter 4: Ecosystems and Communities

Chapter 5: Populations

Chapter 6: Humans in the Biosphere

Chapter 20: Viruses

**Textbook:**

Biology. Miller, Levine. Pearson. 2010.

**Classroom Guidelines:**

Be prompt.

Be respectful.

Be prepared.

**Grades:**

Grading is done on a ***weighted*** basis. Grades will be earned from a combination of classwork, labs, and tests. The categories will be weighted as follows:

|  |  |
| --- | --- |
|  | **% of Total Grade:** |
| Other (Formative Assessments) | **30** |
| Summative Assessments | **70** |

ACADEMIC HONESTY:

**Plagiarism, copying assignments, and/or cheating will NOT be tolerated and will result in a “0”!** The Wilson High School Student Handbook has clear definitions of what constitutes cheating and plagiarism...READ THEM!

CLASSROOM PHILOSOPHY AND EXPECTATIONS:

I firmly believe that, as a student, YOU are the most important “ingredient” of your education. I consider my role as a teacher to prepare and provide for you a series of opportunities and experiences through which you can learn Biology, and to evaluate your completed work. It is your job to participate in and learn from those opportunities and experiences.

Your signature below acknowledges that you have received, understood, and agreed to the requirements and expectations of this course. Please keep this paper in the front of your notebook.

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Name (Print)

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Signature Date