

Kaiser High School
Honors Biology Syllabus 2018 - 2019

Mr. Mazzulli

Email: mazzpp@fusd.net Website: biosciguy.com

Course Description:

Biology meets the University of California "D" requirements for "laboratory science." Biology also meets the Life Science requirement for graduation from Kaiser High School.

Biology:

Covers the characteristics and processes associated with biological systems. Students will enhance their skills in laboratory analysis, problem solving, and critical thinking with respect to ethical and environmental concerns in biology. Students will be introduced to cell biology, energy transformations, genetics, heredity, evolution, population studies and ecology.

Course Objectives/Goals:

All interactive lectures and activities align with the Next Generation Science Standards for Biology/Life Science. This class prepares a student for AP Biology, AP Environmental, and Anatomy and Physiology.

Students will keep a notebook (3-ring binder) of their lecture notes, labs, daily pop quizzes and activities. The notebook, or binder, will be specific for Biology and should not contain other class materials. Students will turn in assignments, material in their notebooks (lecture notes, labs, daily pop quizzes and activities) for a grade periodically within the quarter. This "notebook" grade will be added into their overall grade for the class.

Quizzes are given periodically at any time during the class. The students are given questions to answer based on the current work or previous lecture or activity. At the teacher's discretion, students may use their notes, ask a fellow student, or use the class textbook to find the answers. This is used to help the student review the previous material, and prepare for the current days' work and check for understanding. For full credit, students need to be on time, be ready to work, and correctly answer the daily quiz questions.

Tests/Quizzes will be given on a schedule to correspond with the chapter/units covered in class. These may include multiple choice, true/false, fill-in, matching, short answer, diagrams, lab quizzes, chapter quizzes, etc. Each Unit will have a corresponding department based "Common Assessment" given by each teacher to their students.

Class Participation is expected. Participation in the class may consist individually or as part of a group. It will be based on your use of time, positive behavior and preparedness for class activities.

I maintain a website where assignments and activities for each week are posted. There are also additional resources to help students with course material and concepts. Students can visit the page at www.biosciguy.com to get assignments and information about each day's lessons, assignments and activities.

Student Expectations

Students will be expected to meet the general rules and regulations of Kaiser High School, the Fontana Unified School District, and the State of California Education Code.

Students will not be allowed to use any electronic devices, including but not limited to, iPods, cellular phones or PGD's (personal gaming devices) at any time in class **unless instructed by the teacher to do so.**

Students will be respectful to each other and the teacher.

Students will come prepared to work every day.

Course Grading Policy

Students in Biology will be able to earn a letter grade of “A”, “B”, “C”, “D”, or “F”. Students earning an A, B or C in the course will have also met the University of California/Cal State University requirements for admittance.

Grades will be based on the following grade scale and overall grade broken into the following categories:

<u>Grade</u>	<u>Percentage</u>	<u>Categories</u>	<u>% of Overall Grade</u>
A	90-100	Tests/Quizzes/Midterms/Finals	60%
B	80-89	Labs/ Classwork/Activities/Projects/Homework	40%
C	69-79		
D	55-68		
F	0-55		

Students may be allowed to retake a test for a better grade. A retake will be allowed if the original score is below 68% of the test grade and will be averaged with original score. Retakes may be taken on student’s time or on a scheduled Wednesday minimum day. The test must be taken within 2 weeks after the test was given, but in no case after the end of a quarter or semester. Ask the teacher for a current schedule of times when the test may be retaken.

Late Work

It is the student’s responsibility to talk with the teacher to find out what was missed as well as to make up any work upon their return after an absence. Late work may be turned in at teacher’s discretion, but in no case more than one week after due date.

If an absence was on a test day, the student needs to ask the teacher for the makeup test.

Course Outline

First Semester

Unit 1: Science of Biology

- Ch. 1 The Science of Biology
- Ch. 2 Chemistry of Life

Unit 3: Cell Biology

- Ch. 7 Cell Structure and Function
- Ch. 19.1 Bacteria
- Ch. 8 Photosynthesis
- Ch. 9 Cellular Respiration
- Ch. 10 Cell Growth and Division

Unit 4: Genetics

- Ch. 11 Introduction to Genetics
- Ch. 12 DNA and RNA
- Ch. 13 Genetic Engineering***
- Ch. 14 The Human Genome

*** Time permitting

Second Semester

Unit 2: Ecology

- Ch. 3 The Biosphere
- Ch. 4 Ecosystems and Communities
- Ch. 5 Populations
- Ch. 6 Humans in the Biosphere

Unit 5: Evolution

- Ch. 15 Darwin’s Theory of Evolution
- Ch. 16 Evolution of Populations
- Ch. 17 The History of Life
- Ch. 18 Classification

Unit 10: The Human Body

- Ch. 35 The Nervous System
- Ch. 36 Skeletal, Muscular, Integumentary Systems
- Ch. 38 Digestive and Excretory Systems
- Ch. 39 Endocrine System
- Ch. 40 The Immune System and Disease