



KENNEDY HIGH SCHOOL

COURSE SYLLABUS 2016-17



Course Description: Biology 1P (Course Number: QBS 281)

Biology is a course in which the students understand life science concepts through a combination of lessons presented by way of reading, writing, direct instruction, lab activities, videos, and internet research. The activities are designed to relate topics to everyday life, develop problem-solving skills using scientific methodology, and provide opportunity for critical, quantitative and qualitative thinking. This course is offered at John F. Kennedy High School which addresses the New Generation Science Standards (NGSS) covering these major themes: **Structure and Function, Inheritance and Variation of Traits, Matter and Energy in Organisms and Ecosystems, Independent Relationships in Ecosystems and Natural Selection and Evolution.**

Name of Teacher: Emelina D. Emaas

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Teacher Phone Number: (916) 395-5090 X 506127



Textbooks

Title: Biology (Publisher: Prentice Hall) c. 2002, Authors: Kenneth r. Miller, Ph. D. and, Joseph Levine Ph. D.



Required Materials

You are required to bring all the materials daily that includes: a standard size 3-ring binder with lined paper, pen, sharpened pencil, and eraser



Assessment/Grading Policy

Grades will be assigned using letter grades that represent degrees of performance in these areas. **(100-90 = A; 89-80 = B; 79-70 = C; 69-60 = D; 59 and below = F)**

- Individual assignments is complete and accurate = 20% of the total grade
- Group assignments includes group projects, labs and presentations = 15% of the total grade
- Daily Journal must be written in complete sentences = 30% of the total grade
- Weekly Quizzes/Chapter Tests/ Unit Exams = 35%



Course Outline (NGSS)

LS 1: From Molecules to Organisms: Structures and Processes

LS 1.A. Structure and Function

Chapter 1-The Science of Biology

Chapter 2-The Chemistry of Life

LS 1.B. Growth and Development of Organisms

Chapter 7- Cell Structure and Function

Chapter 10- Cell Growth and Division

LS 1.C. Organization for Matter and Energy Flow in Organisms and Ecosystems

Chapter 2.1- The Nature of Matter

LS 2: Ecosystems: Interactions, Energy and Dynamics

LS 2.A. Interdependent Relationships in Ecosystem

Chapter 4- Ecosystems and Communities

LS 2.B. Cycles of Matter and Energy Transfer in Ecosystems

Chapters 3- The Biosphere

LS 3 Heredity: Inheritance and Variation of Traits

LS 3.A. Inheritance of Traits

Chapter 11- Introduction to Genetics

LS 3.B. Variation of Traits

Chapter 12- DNA and RNA

Chapter 13- Genetic Engineering

LS 4: Biological Evolution: Unity and Diversity

LS 4.A. Evidence of Common Ancestry

Chapter 15 Darwin's Theory of Evolution

LS 4.B. Natural Selection

Chapter 15 (Continuation) Natural Selection

LS 4. C. Adaptation

Chapter 32- Mammals

LS 4.D. Biodiversity and Humans

Chapter 6-Humans in the Biosphere



Course Objectives

General: The student will understand the biology concepts/ideas that are addressed in the New Generation Science Standards through a combination of lessons presented by way of reading, writing, direct instruction, hands-on/lab activities, videos, and internet research.

Specific: After completing this course, the student should be able to:

- perform simple experiments demonstrating proper procedures and use of scientific apparatus.
- make meaningful measurements and calculations basic to the study of biology.
- do hands-on activities to develop, strengthen and apply their technological, analytical and inquiry skills.
- demonstrate an understanding of the basic concepts of biology, and understand life and beyond.
- relate the concepts of biology to everyday situations.



Students' Academic Expectations

- Report on time in class with completed assignments
 - All assignments must be:**
 - done completely, neatly and turned in on time. Identify all your work with your name on the upper right hand corner of the page
 - typed written preferably; pencil is ok for homework but not essays or projects.
 - organized and in the correct order when you arrive for class. This must reflect your best work and make sure you follow the directions.
- Assignment is due within the first 5 minutes of class. Work turned in after school is considered late. Missed assignment/make-up work for excused absences may be turned in within the week, however, will result in a penalty of 10% less credit out of the allotted total score.
- Incomplete assignments will result in loss of credits and a warning letter. Continuing this pattern may result in sending a letter to your parent.
- Plan to spend a productive time at home in completing your assignments. Keep a daily log of your assignments. Bring your log with you in class for teacher's initial.
- Call me, your teacher, if you have any questions about your work. I know you can be successful and I am ready to assist and help motivate you.
- ❖ **Periodically, there may be extra points credit opportunities. Extra credit does not replace assignments and will only be accepted from students who have completed all assigned work.**



Parent Expectations

- Make sure your student keeps regular study time at home and report to school on time.
- Supervise your student's work by monitoring assignment logs and work.
- Provide your student with appropriate materials and a good study/work environment.
- Provide your student with lots of **encouragement and support**

**“If we hold on together, I know your dreams will never die.
DREAM BIG, it’s free.”**