JOHN F KENNEDY HIGH SCHOOL
2017-2018 COURSE SYLLABUS

COURSE/CODE: (BIOLOGY/QBS 281)

COURSE DESCRIPTION:

Welcome to Ms. Emaas's Biology class! I am looking forward to having another great year! We are going to have a very busy and exciting year. **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. The course will follow the New Generation Science Standards (NGSS) as set forth by the State of California 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.** These standards may be found at http://www.cde.ca.gov.

Teacher Name: Mrs. Emelina D. Emaas
Teacher Email Address: (emelina-emaas@scusd.edu)
Teacher Phone Number: (916) 395-5090 X 506127

TEXTBOOK

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

REQUIRED MATERIALS:

- Composition notebook. (Science Journal)
- A three ring binder (for this course only)
- binder paper, dividers (1 package)
- pencil, eraser, blue or black pen, highlighter
- colored pencils (crayons or makers are okay, but colored pencils are preferred)
- metric ruler
- scissor

GRADING POLICY:

Please check Infinite Campus for the grades. Grades will be updated on Infinite Campus at least once a week.

Grades will be calculated as a weighted grade based on the following percentages.

The grading scale is a 10% scale, i.e. **90-100=A, 80-89=B, 70-79=C, 60-69=D, 59 or lower=F**.

- Homework: 15 %
- Classwork: 30 %
- Citizenship: 5%
- Quizzes and Tests:35%
- Class Participation:15%

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 exploratory activities 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 of organisms; and
- relate the concepts of biology to everyday real life situations.

STUDENTS' ACADEMIC EXPECTATIONS:

1. Respect yourself, others, and all school property.
    a. Come to class prepared to learn with all materials and assignments.
    b. Be in your seat and begin working quietly on warm-ups when the bell rings, or, you are tardy.
    c. Actively participate by asking questions, trying your best, and having a positive attitude.
    d. Follow instructions, especially regarding safety, the first time they are given.
    e. The teacher dismisses you from class, not the bell.
2. You must raise your hand to ask for permission to get out of your seat, to ask a question, or make a comment.
3. No food, drinks, or gum inside the classroom. Water is ok at desks only. No electronics in the classroom.
4. All school and district policies will be enforced.

CONSEQUENCES:

- Student/teacher conference, parent contact, teacher detention, administrative referral, and suspension.
- Consequences will progress based on the severity and frequency of the offense.

HANDING IN WORK:

All work must:

- Be completed in pencil or ink (blue or black).
- Be the student's own work.
- Have a proper heading including: first and last name, date, and period.
- Be complete.
- Be on time.
- Work not turned in on the due date at the due time is late.
- I will not grade assignments that are illegible.

LATE WORK

- In case of absence it is student's responsibility to complete the class work and home work. One extra day will be assigned for each day's absence. Late work will receive no greater than 50% of the total points for the assignment.

PARENT EXPECTATIONS:

- Make sure your student/child report to school regularly except for valid reasons.
- Supervise your child's work by monitoring assignment logs and work.
- Provide your child with appropriate materials and a good study/work environment
- Provide your child with lots of encouragement and support.

Mission for the Class

I want to instill a love for science through inquiry and cooperative learning.

I hope to encourage the students to work to their highest potential.

Please remove and return.

Mrs. Emaas– Biology

By signing below, I am indicating that I have read, understand, and agree with the **course syllabus**.

If I have a question regarding a policy, procedure, etc., I will ask it as soon as it arises.

STUDENT NAME (Print): _____Period_____

STUDENT SIGNATURE: _____

PARENT/GUARDIAN NAME (Print):

_____

PARENT SIGNATURE: _____

DATE: _____

GRADE: _____

ADDRESS: _____

CITY: _____ ZIP CODE: _____

HOME PHONE #: _____

MOTHER/GUARDIAN NAME: _____

Daytime/work phone # _____ best time to contact:_____

Email address: _____

FATHER/GUARDIAN NAME: _____

Daytime/work phone # _____ best time to contact:_____

Email address: _____