General Biology

BIOS 101.0

Syllabus

2019-2020

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## INSTRUCTIONAL MATERIALS

Essentials of Biology (w/Connect Plus Access Card) Edition: 4th
Author: Mader
Publisher: McGraw-Hill Publishers
Website:https://connect.mheducation.com/class/m-zarate-fall-2019--spring-2020

## ATTENDANCE

Attendance and class participation is vital to a student's success. Students are expected to attend all classes, lab sessions, and to participate in any class discussion. Tardy students will lose points for that day and may be referred to the administration.

### Electronics

No unauthorized computer or cell phone use in class and lab. Cell phones will be kept in backpacks or at the front of classroom unless being used as part of lesson. The PowerPoint notes we will cover during class are available from the google site or book site. You may run them off before class and bring them. I will add thoughts on these concepts. You may find it helpful to write down some notes.

**NO EXTRA CREDIT ASSIGNMENTS ARE GIVEN TO HELP IN RAISING A POOR GRADE!** I feel that you should be using the time you would spend researching and writing an extra credit assignment on studying and preparing for the next exam.

**LearnSmart**

After each lecture, you are to complete the LearnSmart chapter review before the test. Each will be worth points upon full completion. Percentages will be given for unfinished work. These are not able to be made up.

**Laboratory**

You will receive a lab paper at the beginning of the laboratory period. Look through it quickly and make a plan on how to complete all the parts efficiently. Some sections take a definite period of time and may need to be started and allowed to run while other parts are completed. All labs must be turned in at the due date. All late labs will receive reduced grades.

**TESTING**

Unit lecture examinations will be given after covering every chapter. Multiple choice and true or false questions will be taken from each chapter.

You are to be in attendance and on time the day an exam is scheduled. If you anticipate being absent that day, make arrangements to take the exam ahead of time. If you do NOT follow these guidelines, then the activities/pre-excused absence policy (see below) will take effect. The reasoning behind this philosophy is that the student has extra time to study and/or get help from other students in the class. The makeup exams are at the instructor's discretion and may be at 7 AM. All unannounced quizzes cannot be made-up.

**Conduct**

Student academic and non-academic conduct will follow the rules and regulations outlined in the CCC/ Lexington High School Student Handbooks for the current semester/year.

IF YOU ARE ABSENT:

*Get a General Absence Form and follow the directions:*

1. All labs must be made up (WITHIN 2 DAYS due to loss of materials) before or after school. (No exceptions!)

2. Come in before or after school to ask the teacher what you need to make up and for copies of handouts or worksheets.

3. If you miss a TEST, it is the STUDENT'S responsibility to arrange to make-up the test. TESTS must be made up in **2 days. Tests missed due to activities must be taken prior to their absence. Failure to do so will result in a 10% deduction.**

4. It is the student's responsibility to turn in all make-up work as soon as possible. (follow the 2 days rule- 2 days to make up work for each day of absence.)

5. Turn in any assignment that was due for the day(s) absent. Failure to do so will result in a '0' for the assignment after which a maximum of 50% is achievable.

6. If the student has a **pre-excused absence** (other than activities), they need to ask for the assignments in advance and hand assignments in before leaving. Failure to do so will result in the student receiving a '0' for the assignment, after which a maximum of 50% is achievable.

**7. <u>Extra-curricular activities absences</u>: All absences that are due to activities, athletics, competitions, etc… must be cleared at least 24 hours prior to the absence. Students need to complete the Activities Absence Form at least 24 hours prior to the absence. All work due prior to their absence MUST be turned in before departure to receive full credit. Failure to turn in work will result in the student receiving a '0' for the assignment until the assignment is finished, after which a maximum of 50% is achievable. Students who fail to have an absence cleared prior to being gone will be held after school, the next day. Contact with coaches will be made to inform them that the student will miss/be late to practice.**

**Graded Materials (45% each quarter) Semester final=10% of total grade**

Tests/Quizzes 50%  Labs 25%  LearnSmart/Study Guides 10%  Participation 15%

**GRADING SCALES**

| Central Community College | | | | Lexington High School | |
|---|---|---|---|---|---|
| 98-100% | = A+ | 70-76.99% | =C | A+= 100-98 | A= 97-93 |
| 90-97.99% | = A | 67-69.99% | =D+ | B+= 92-90 | B= 89-85 |
| 87-89.99% | = B+ | 60-66.99% | =D | C+= 84-82 | C= 81-77 |
| 80-86.99% | = B | <60% | =F | D+= 76-74 | D= 73-70 |
| 77-79.99% | = C+ | | | F= Below 70 | |

**It is recommended that students maintain an 85 (B) percent average or above. Students with a grade of 84%(C) or below will not receive honors points and may be reassigned to another class.**

Anyone caught cheating or plagiarizing will fail the exam or paper with a "0"; and may fail the course; and their names will be given to the administration for administrative disciplining. Refer to the LHS/CCC Student Handbook.

**Safety**

Students will wear safety goggles and other necessary safety equipment during all labs. The student will wear closed toed and heeled shoes, such as athletic shoes and pants or jeans covering the legs entirely. No shorts, skirts, or crocs are allowed during the labs.

**Study hints:**

If this is your first experience with a college level science course, you need to be prepared for a great deal of work and many hours of study. Science courses such as biology are about the way things actually work and how we can explain the phenomenon around us. The problem is in the details and you will be expected to know so many details. Memorization is sometimes helpful, but you can easily become quickly overwhelmed. A better way is to try and make sense of the concepts and figure out how they work together. Read the chapter, listen and take notes during the PowerPoint lecture sessions, and spend time each and every day studying the material for the next exam. In order to allow more days of lecture over the chapters in a unit, we do not have time for a final exam. I prefer to spend the time per chapter and allow you to concentrate on one general multifaceted set of concepts. Also a study partner or group is often helpful.

**Tentative Schedule- dates are subject to change!**

**Chapter**

01 Introduction
02 LAB 1 Introduction to Scientific Investigations/ Measurements
03 Chapter 2 Basic Chemistry LearnSmart Chapter 2
**04 EXAM CHAPTER 2- AUGUST 30**
05 Chapter 3 The Chemistry of Organic Molecules LearnSmart Chapter 3
**06 EXAM CHAPTER 3- SEPTEMBER 11**
07 LAB 2 Cell Structures and Functions of Cells
08 Chapter 4 Cell Structure LearnSmart Chapter 4
**09 EXAM CHAPTER 4- SEPTEMBER 25**
10 Chapter 5 Cellular Function LearnSmart Chapter 5
**11 EXAM CHAPTER 5 -OCTOBER 3**
12 LAB 3 Enzymes and Metabolism of Yeasts
13 Chapter 6 Photosynthesis LearnSmart Chapter 6
**14 EXAM CHAPTER 6- OCTOBER 17**
15 Chapter 7 Cellular Respiration LearnSmart Chapter 7
16 **EXAM CHAPTER 7- October 30**
17 LAB 4 Photosynthesis
18 Chapter 8 The Cell Cycle and Cellular Reproduction LearnSmart Chapter 8
**19 EXAM CHAPTER 8- NOVEMBER 13**
20 Chapter 9 Meiosis and Sexual Reproduction LearnSmart Chapter 9
**21 EXAM CHAPTER 9- NOVEMBER 21**
22 LAB 5 Inheritance
23 Chapter 10 Mendelian Pattern of Inheritance LearnSmart Chapter 10
**24 EXAM CHAPTER 10- DECEMBER 5**
25 Chapter 11 Molecular Biology of the Gene LearnSmart Chapter 11
26 **EXAM CHAPTER 11- DECEMBER 13**
**27 FINAL EXAM SEMESTER 1- DECEMBER 20**
28 ---------- SEMESTER BREAK----------
29 LAB 6 Karyotype and DNA
30 Chapter 14 Darwin and Evolution LearnSmart Chapter 14
**31 EXAM CHAPTER 14- JANUARY 15**
32 Chapter 15 Evolution on a Small Scale LearnSmart Chapter 15
**33 EXAM CHAPTER 15- JANUARY 23**
34 LAB 7 Evolution and Gene Frequencies
35 Chapter 16 Evolution on a Large Scale LearnSmart Chapter 16
**36 EXAM CHAPTER 16- FEBRUARY 3**
37 Chapter 17 Microorganisms LearnSmart Chapter 17
**38 EXAM CHAPTER 17- FEBRUARY 19**
39 LAB 8 Bacteria and Protists

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| 40 | Chapter 18 Plants and Fungi | LearnSmart Chapter 18 |
| **41** | **EXAM CHAPTER 18- MARCH 5** | |
| 42 | Chapter 20 Plant Anatomy | LearnSmart Chapter 20 |
| 43 | **EXAM CHAPTER 20- MARCH 18** | |
| 44 | LAB 9 Plant Tissues | |
| 45 | Chapter 19 Animals | LearnSmart Chapter 19 |
| **46** | **EXAM CHAPTER 19- APRIL 1** | |
| 47 | Chapter 22 Human Anatomy | LearnSmart Chapter 22 |
| **48** | **EXAM CHAPTER 22- APRIL 9** | |
| 49 | LAB 10 Animal Evolution and Mammalian Anatomy | |
| 50 | Chapter 30 Ecology and Populations | LearnSmart Chapter 30 |
| **51** | **EXAM CHAPTER 30- APRIL 29** | |
| 52 | Chapter 31 Ecosystems and Communities | LearnSmart Chapter 31 |
| 53 | **EXAM CHAPTER 31- MAY 4** | |
| **54** | **FINAL EXAM SEMESTER 2-MAY 6** | |

Lectures will typically run about 5 lectures followed by a chapter exam. This is an approximation and may run longer or shorter. This Tentative Schedule is to give you an idea as to where we will be during the year and to help you plan your schedule.