**GENERAL BIOLOGY ll**

**SYLLABUS**

**Course Rubric and number: BIOL 1407**

**Semester with CNR: FALL 2015, CNR # 71933**

**Instructor contact information Dr. Deolu-Sobogun Suziat**

**E-mail:** **suziat.deolu-sobogun@hccs.edu**

**Office hours**: **Immediately after class**

**Course location/Times: Felix Morales Building**. **Eastside Center, Southeast College**

**Lecture: Tuesday: 8:00 AM – 11:00 AM, Room 218.**

**Lab.: Thursday: : 8:00 AM – 11:00 AM, Room 201**

**Course Semester credit Hours 4**

 **Learning web:** [**http://learning.hccs.edu/faculty**](http://learning.hccs.edu/faculty)

Biol. Lab. Study page: hccs.edu/biologylabs

www.khanacademy.org

**TEXTBOOK:** Biology, 10th Edition, Campbell and Reece, et al. Benjamin/Cummings publishing

Co.,

**LAB MANUAL**: Biology: Biology 1407, Laboratory manual. .

**COURSE DESCRIPTION**:

Topics include Evolution, Classification and Ecological relationships, and Organ Systems of Animals and Plants. Core Curriculum Course.

COURSE PREREQUISITE: BIOL 1406 or equivalent.

***Course Goal or Intent***: This course is intended to familiarize the Health Science Major with anatomical organ systems and plant structures and function.

Prerequisites:

***STUDENT LEARNING OUTCOMES:***

The student will be able to;

1. Identify the characteristics of each of the major kingdoms and phyla within these kingdoms, including basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
2. Analyze the inter-relationship between organisms from the molecular through ecosystem levels of biological organization
3. Evaluate the strength of phylogenetic relationships among organisms, and be able to distinguish among the various kinds of supportive data (i.e. fossil, developmental, structural, physiological and biochemical).
4. Illustrate the relationship between major geologic change and evolutionary trends.
5. Analyze the different sexual and asexual life cycles noting their adaptive advantages.

**Student Learning Objectives:**

The students;

1. Demonstrate knowledge of the major kingdoms and phyla within these kingdoms.

2. Demonstrate knowledge of the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.

3. Distinguish between the relationship between major geologic change and evolutionary trends.

4. Compare and contrast life processes from the unicellular organism through the complex systems of a multicellular organism

Tentative Lecture Outline:

The chapters may be taken out of sequence from the textbook. *Not all materials in each chapter will be studied or on the exam*.

***The following is a tentative schedule and the instructor reserves the right to modify this syllabus and will notify the class of any changes in a timely manner.***

 **LECTURES/LABORATORIES**

*Chap 22: Descent with Modification: A Darwinian View of Life*

*Chap 23: Evolution of population*

*Chap 24: The Origin of Species*

*Chap 25: Tracing Phylogeny*

*Chap 26: Early Earth and the Origin of Life*

*Chap 27: Prokaryotes and the Origin of Metabolic Diversity* ***(MONERA)***

*Chap 28: The Origins of Eukaryotic Diversity* ***(PROTISTA)***

*Chap 29: Plants Diversity I: The Colonization of Land* ***(PLANTAE)***

*Chap 30: Plant Diversity II: The Evolution of seed Plants* ***(PLANTAE)***

*Chap 31: Fungi*

*Chap 32: Introduction to Animal Evolution* ***(ANIMALIA)***

*Chap 33: Invertebrates* ***(ANIMALIA)***

*Chap 34: Vertebrate Evolution and Diversity* ***(ANIMALIA)***

*Chap 40: Introduction to Animal Structure and Function*

*Chap 41: Animal Nutrition*

*Chap 42: Circulation and Gas Exchange*

*Chap 43: The Body’s Defenses*

*Chap 44: Controlling the Internal Environment*

*Chap 45: Chemical Signals in Animals*

*Chaps 46/47: Animal Reproduction/ Animal Development*

*Chap 48: Nervous System*

*Chap 49: Sensory and Motor Mechanisms*

*Chap 50: An Introduction to Ecology and the Biosphere*

**EXAM SCHEDULE:**

1ST LECTURE. EXAM ----------- Week of 9/21-9-27 online

2ND LECTURE. EXAM ------------Oct.29th

3RD LECTURE EXAM ------------Nov. 19th

4th LECTURE EXAM ------------Week of 11/30-12/6h online

1ST LAB. EXAM ------------Oct. 6

2ND LAB. EXAM ------------Dec 1

STATE WIDE COMPREHENSIVE FINAL EXAM ----------- Dec. 10th

**LAB STRUCTURE**: Each student is expected to participate and complete the lab during the lab meeting time while also having the lab reports along with the appropriate data sheet(s) completed and ready to turn in on or before the next lab meeting. The lab safety release form must be signed during the 1st lab session.

**LECTURE STRUCTURE**: 4 lecture and 2 Lab. exams will be given based on the topics that were conducted during lecture meeting times, two of the exam will be online while two will be in the classroom, the lowest grade will be drop at the end of the semester, there **will not** be make up for lecture exams, the two lab. Exams will be conducted in class. At the discretion of the instructor, pop quizzes will be given at the beginning of the class; students will be given approximately 15 minutes to complete the quiz.

The lowest grade from the lecture exams will be dropped at the end of the semester, any student that missed a lecture exam will use the missed exam as the drop grade.

PRESENTATION/CASE STUDY: Topics will be assigned to students individually or in group and will be presented during the class, the schedule will be provided later .Case study on related topic will be discussed in class which will be graded.

**GRADING COMPUTATION:**

Lecture Exams: 40%

Comprehensive State Wide Final Exam: 10%

Lab Exams: 15%

Lab Reports: 15%

Participation/Presentation 10%

Quiz/ mastering Biology assignments 10%

Below is the letter grade designation:

A: 100 – 90

B: 89 – 80

C: 79 – 70

D: 69 – 60

F: Below 60

**Tips for Students:**

The following are some strongly recommended tips for students:

• Understand and complete all elements within the syllabus.

Everyone wants to do well in this class. I want you all to learn the material and succeed

in the course. Here are some tips to help you on your way:

* **Attend every class.** It's a great opportunity to work with other people, ask questions, and learn things that may not be covered well in the book or notes.
* **Ask questions!** If you aren’t getting something, I can guarantee you that other people in the class don’t get it either. You are not supposed to know everything when you get here-but if you don’t ask questions, you won’t know it when you leave either
* **Find a Study Buddy, or better yet a study group.** Science is a group activity—and learning science is, too. Your studying will be **much** more productive if you do it with at least one other person. You can quiz each other, take turns explaining topics and ideas, and entertain one another as you work.
* **Don't wait until the night before to study**; it will be overwhelming. Instead, go over the material after every class. This breaks it into manageable chunks—and you get to sleep the night before the test, too.
* **Make the study interactive**. Use flashcards, quiz a friend, or re-write parts of your notes from memory. **Don't** just stare at the information—you'll bore yourself to tears.

• Contact me if you have any questions regarding any aspect of the course you

 do not understand. You can contact me during my office hour or through my email and I will respond to your question(s) within 24- 48 hours, most of the time earlier especially during the week.

**RULES AND REGULATIONS**:

1. The listed textbook and lab manual are required for the course.

2. ATTENDANCE:

a. Attend class regularly, be on time, and stay until the period ends, unless dismissed.

Student will be given a 15 minutes grace to get to the class.

b. Full attendance is required for lab sessions. Students with more than four (4) unexcused

absences may result in administrative withdrawal. Students are responsible for

everything covered during the absence, and it is the student's responsibility to consult

with the instructor for make-up exams.

c. If you have an attendance issue, please notify me. Any student who wishes to drop the

class must understand it is their responsibility and officially do so on or before the drop

date.

Failure to withdraw officially will result in a letter grade, not a “W” in this course.

3. Cell phones must be placed on silent or vibrate during class/lab meetings. No recording

in the classroom except with my approval

4. Smoking is not allowed in the laboratory. No Eating or drinking is permitted except

Water, however. Eating and drinking is prohibited in the lab.

5. Children or anyone not officially enrolled in this course are not allowed in the lecture/lab

rooms.

6. Cheating/plagiarism is not tolerated. First infraction of cheating/plagiarism will result

in a warning. The second infraction of cheating/plagiarism will result in a “zero” on the

exam or other work involved. The third infraction will result in a letter grade “F” in the

course. Cheating/plagiarism is defined as giving or receiving, offering or soliciting

information, or using prepared material without permission or proper documentation. Please refer to the Houston Community College System policies within the most current Student Handbook.

EXAMS/QUIZZES/REPORTS: Exams will consist of multiple choice questions with possible fill-in-the-blank, diagrams, completion, definitions, matching, and/or essay questions based on the material covered in the lecture session and the text. The following are guidelines that will govern all exams:

• Students will not be allowed to leave the classroom before completing an exam.

• Students arriving late will not be allowed to take the exam if any student has completed

the exam and left the classroom.

• The instructor holds the right to conduct timed exam.

• Students arriving late will not be given extra time to complete the exam.

• The lab exams and final exam are mandatory in order to pass the course.

* **Student can have an Incomplete ‘I’ only if the student miss one exam and the student is passing the class.**

Pop quizzes will be given at the discretion of the instructor the first 10 minutes of the lecture session. Each quiz will be over previous information or information that is to be covered on that lecture session day.

**STUDENTS WITH DISABILITIES**:

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the appropriate HCC Disability Support Service (DSS) Counselor at the beginning of each semester.  Faculty is authorized to provide only the accommodations requested by the

Disability Support Services Office

Students who are requesting special testing accommodations must first contact the appropriate (most convenient) DSS office for assistance:

Disability Support Services Offices:

System: 713.718.5165

Central: 713.718.6164 – also for Deaf and Hard of Hearing Services and Students Outside of the HCC District service areas.

Northwest: 713.718.5422

Northeast: 713.718.8420

Southeast: 713.718.7218

Southwest: 713.718.7909

**DATES TO REMEMBER:**

August 24 Monday Classes Begin

September 7 Monday Offices Closed -Labor Day Holiday

**October 30 Friday Last Day for Administrative/ Student Withdrawals-**

November 25 Wednesday No Night Classes before Thanksgiving

November 26- 29 Thur- Sun Offices Closed- Thanksgiving Holiday

December 6 Sunday Instruction Ends

December 7-12 Mon- Sun Final Examinations

December 13 Sunday Semester Ends