

BIOLOGY 10, FUNDAMENTALS OF BIOLOGY, SECTION 1093, 4 Units, Mrs. Oyama

LECTURE (LS 108) MW 2:00-3:25 PM, LAB (NATS 129) THUR 2:00-5:10 PM

TEXTBOOKS: 1. Johnson, G. & Losos, J., 2008, 2nd ed. Essentials of the Living World.
2. Mader, S., Vodopich, D. & Moore, R., 2007, Biology 10 Laboratory Manual.
3. (Optional) Rust, 1983, 3rd ed. Guide to Biology Lab.*

*Also available at Library Reserve Desk

RECOMMENDED PREPARATION: English 84.

TENTATIVE COURSE READING AND SCHEDULE – FALL 2009

<u>Topic</u>	<u>Readings from Johnson</u>
Introduction	Chapter 1
Chemical Basis of Life	Chapters 3 & 4
Cellular Basis of Life	Chapter 5 (pp.77-97, 107-108)
Cell Division and Life Cycles.....	Chapters 9, 10
Cell Physiology:	
Cell Transport & Homeostasis.....	Chapter 5 (pp.98-106, 107-108)
Cell Metabolism.....	Chapters 7 & 8
LECTURE EXAMINATION 1, DATE: <u>Thursday, October 8, 2009</u>	
Genetics.....	Chapters 11, 12, 13, 14
Taxonomy	Ch.16
Domains: Bacteria & Archaea.....	Chapter 17 (pp. 317-325)
Domain: Eukarya:	
Kingdom: Protista.....	Chapter 17 (pp. 326-330)
Kingdom: Fungi.....	Chapter 17 (pp. 331-336)
Kingdom: Plantae (Survey).....	Chapter 18
LECTURE EXAMINATION 2, DATE: <u>Thursday, October 5, 2009</u>	
Angiosperm Structure & Function:	
Roots, Stems, & Leaves	Chapter 33
Flowers & Plant Hormones	Chapter 34
Kingdom Animalia (Domain Eukarya)	
Embryology	Chapter 19 (p. 374), Chapter 32 (pp.658-659)
Survey.....	Chapter 19 (pp.357-376, 385-386)
LECTURE EXAMINATION 3, DATE: <u>Monday, November 30, 2009</u>	
Chordates.....	Chapter 19 (pp.376-386)
Animal Physiology	
Digestion	Chapter 27
Circulation	Chapter 25
Respiration	Chapter 26
Excretion	Chapter 28
Evolution	Chapter 2 (pp.23-32), Chapter 15
Ecology	Chapters 2 (pp.33-42), 20, 21, 22
LECTURE EXAMINATION 4, DATE: <u>Thursday, December 17, 2009</u>	

COURSE DESCRIPTION & OBJECTIVES

This course is a survey of all living things: prokaryotes, protists, fungi, plants, and animals. Basic principles of structure, function and relationships of living organisms are discussed with special reference to humans. Upon completion of this course, students should be able to:

1. identify cell structures, tissues and organs;
2. describe physiological and reproductive processes;
3. recognize the genetic mechanisms of inheritance;
4. compare and contrast organisms;
5. describe ecological and evolutionary relationships.

METHODS OF EVALUATION

Grades will be based on performance on the following:

4 Lecture Examinations (100 points each).....	400 points
4 highest of 5 Laboratory Practicals (40 points each).....	160 "
Microscope & Lab Procedures Quiz.....	25 "
Genetics Quiz.....	35 "
22 Lab Work Sheets.....	110 " (5 points each)
Total Possible Points.....	730 points

The following grades will be issued:

- a) No Grade assigned to students who drop by Friday, September 25, 2009;
- b) "W" to students who drop by Friday, November 20, 2009.
- c) A, B, C, D, or F grades to students who complete the course, or who attend for any length of time after the "W" drop date.

Approximate Grade Scale (% of total points at the end of the semester): A=90-100%, B=80-89%, C=65-79%, D=55-64%, F=54% and below.

If a Lecture Examination, Microscope Quiz, or Genetics Quiz is missed due to an excused absence, the students must take make-up tests within a week of the original test date; after this period, 10% of the test value will be deducted per day. Penalties will also result if more than one make-up test is taken during the semester or if make-up test appointments are missed. Make-up tests will be allowed if an absence is due to illness, doctor or dental appointment, or death in the immediate family. Please call the instructor immediately to schedule make-up tests.

Missed Laboratory Practicals cannot be made-up. When calculating total points in the course, all students will have the lowest one of five laboratory practical scores dropped. If one lab practical is missed due to an absence, it will be treated as the low score and dropped. Any additional missed practical will be added in as a zero score. The Microscope and Genetics Quizzes, and Lecture Exams are not practicals; the scores on these tests will not be dropped.

Students are expected to take the Final Examination (Lecture Examination 4) on the scheduled date. If an individual student must reschedule a Final (due to medical emergency, early start at transfer school, etc.) arrangements must be made with the instructor. The rescheduled exam may be a comprehensive test that covers the information from the entire semester.

ATTENDANCE

According to the college catalogue, the instructor may drop students if the number of absences exceeds the number of units of a course. This rule also applies to excessive absences due to illness or medical treatment. Four absences will be the maximum allowed. Five absences will result in a drop from the class. Separate laboratory and lecture meeting days will each count in determining attendance records. If a student has been absent due to a serious communicable disease such as measles or chicken pox, clearance from the school health center is required prior to returning to class.

According to the college catalogue, it is the responsibility of the student to file official withdrawals through the Admissions Office by designated deadlines to avoid being assigned a letter grade of A through F. It is possible that an instructor may have initiated the drop, but as a precaution, students should file their own paperwork.

Assignments missed due to an absence are due the date a student returns to class, (lecture or laboratory, meeting, whenever the student returns first).

If a class is cancelled for the day, an authorized cancellation notice and attendance sheet will be posted on the classroom door. Please sign the attendance sheet, otherwise you will be marked absent.

Only students officially enrolled in the course are permitted in the classroom. Children are not allowed in the classroom, nor are they to be left unattended on campus (see Schedule of Classes).

SUPPLIES REQUIRED

#2 pencils required on exam days

Colored pencils are recommended for lecture and lab.

4 Scantron Sheets, #882 E or ES (answers A-E) which will be collected Week 3; do not staple or write on these.

OFFICE HOURS

Office: NATS 114

Voice Mail: (310) 660-3593, ext 4562 (voice mail only); Web Page <http://elcamino.edu/faculty/> (when functional)

Office Hours: Mon 12:30-1:30 PM, NATS 120

Hours subject to change due to meetings, etc. Appointments may be scheduled for other days and times.

Most class handout sheets will be available on electronic reserve at <http://eres.elcamino.edu/eres/>.

Our password is bio1049.

COURTESY IN THE CLASSROOM

Please be courteous. Silence the beepers on cell phones and pagers. Do not use any recording devices, including cameras, without the consent of the instructor. Do not eat or drink in the classroom; it is especially unsafe to do so in the laboratory. Students who talk excessively may be asked to leave the classroom.

Use of electronic devices, including dictionaries, will not be permitted during tests; such devices will be confiscated if this rule is violated and students will not be allowed to continue with the test.

Smoking is not permitted in any classroom.

CURRENTLY PROPOSED STUDENT LEARNING OUTCOMES

Upon completion of Biology 10, students should demonstrate the following skills:

1. the student will be able to use the compound and dissecting microscope to observe cells and microorganisms;
2. the student will understand and apply principles of the scientific method;
3. the student will be able to describe key activities at each stage of mitosis.

Formulation of student learning outcomes for this course and natural sciences program is ongoing. Additional outcomes will soon be formally stated.

EL CAMINO COLLEGE MISSION STATEMENT

El Camino College offers quality, comprehensive educational programs and services to ensure the educational success of students from our diverse community.

El Camino College is committed to being an open access institutions and serving students of all ages, cultures and backgrounds.

Please see the college catalogue, (page 1), for the extended statement of the El Camino College mission.

ADA STATEMENT

El Camino College is committed to providing educational accommodations for students with disabilities upon the timely request by the student to the instructor. A student with a disability, who would like to request an academic accommodation, is responsible for identifying herself/himself to the instructor and to the Special Resources Center.

CHEATING OR PLAGIARISM

When there is evidence of cheating or plagiarism in classroom work, students may receive an F for that piece of work or may be suspended from all classes for that term and for the following term if deemed appropriate. Please refer to the college catalogue (page 27) or Schedule of Classes (page 6) for a complete description of examples of cheating or plagiarism and statement of the consequences for such behavior.

LINK TO THE COLLEGE CATALOGUE

<http://www.elcamino.edu/admissions/docs/ECC-2009-10-catalog.pdf/>