El Camino College Torrance
Division of Natural Sciences

Course Syllabus- Biology 10 Section # 1080 Fall 2009

Instructor: **Dr. Adeleh Esfandiari**

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

Course Information: **Biology 10 Section 1080 (4 units)**

- **Lecture Days &Time:** **Mondays and Wednesdays 8:00Am-9:25am**
- **Laboratory :** **Fridays 8:00am- 11:00am**
- **Class Location:** **Room #129**
- **Start Date:** **August 29, 2009**
- **Semester Ends:** **December 18, 2009**

Instructor Information:

- **Email Address: AEsfandiari@elcamino.edu**
- **Office Location: Natural Sciences Building Room #120**

Course Materials:

- **Textbook:** Essentials of the Living World, 2nd.edition,
- **Author**: George Johnson, Jonathan Losos.

- **Laboratory Manual:** Biology 10 El Camino College, Inquiry into Life 12th edition
- **Author:** Sylvia Mader and Vodopich and Moore.

Supplemental Materials;
Pencil #2 to be used during Quiz and Multiple choice exams.
10-12 Blank scantrons (Form #882).
Note Book for Laboratory Report

Course Description

The Fundamentals of Biology Course will provide a unique opportunity to better understand and appreciate our life and the ecosystem. During our time together you will learn and discover interesting facts about cells, physiological and biological aspects of cell, general chemistry,

genetics, reproduction, structure and function of animals and plants, ecosystem, and human anatomy, physiology and functions of the organs, and pathogenesis.

Course Pre-requisites: English 84.

Course Objectives

The course objectives are designed in a format that by the end of the course, the students be able to:

1. Understand the principles of cell structure and biological chemistry;
2. Understand definition and importance of biological science and scientific procedures;
3. Demonstrate a firm knowledge of the principles and mechanisms of evolution and genetics;
4. Characterize ecological interactions between organisms and their environment;
5. Identify and classify various members of various protists, fungal, plant and animal phyla
6. Relate structures of plants and animals to the functions of those structures;
7. Describe reproduction and life cycles of fungi, plants and animals;
8. Develop an understanding of the human cellular organization and function.

Students Learning Outcome (SLOs):

1. Students will understand and apply principles of the scientific methodology; recognizing an idea based on reproducible evidence.
2. Students will be able to use the compound and dissecting scope to observe cells and micro-organisms, measure the size of the objects.
3. Students will be able to explain the processes of each stage of mitosis.

Evaluation Criteria

4 Lecture Exams	**400**
2 Lab Exams	**200**
Lab reports	**100**
Quiz	**100**
Total points	**800**

Grade Scale:

100-90%	**800-710**	**(A)**
89-80%	**709- 621**	**(B)**
79-70%	**620- 550**	**(C)**
69-60%	**549- 489**	**(D)**

Attendance Policy:

- **Tardy:** **Three** (3) tardy is considered one class absence
- **Absence:** **Three** (3) unexcused absences result dropped from the course
- **Excused absence:** such as emergencies, sickness, etc, requires notification and submission of appropriate documents

Students Conduct/Regulations:

I- Discipline in the class:

You are expected to have consideration for the other students by restricting yourself from talking and distracting others during lectures. Cell phones and pagers must be absolutely off. Plan to arrive on campus well in advance of your scheduled class. Students walking in late should be quite and not make any noise since this is disruptive to the class, and this behavior is inconsiderate to your peers and should be avoided. There is no eating or drinking in the Lecture room and Laboratory.

Student Responsibility:

- **Conduct at El Camino College must conform to the laws of the State of California, District policies, and campus rules and regulations. The Faculty, staff and administration are dedicated to maintaining an optimal learning environment. The standards of behavior as outlined in this policy are essential to the maintenance of a quality college environment.**

- **Cheating or plagiarism violates Section I.B.1 of El Camino College's Board Policy 5138, "Standards of Student Conduct." Details concerning the Standards of Student Conduct are available in the College Catalog and in the Student Handbook.**

- **If you decide to drop the course, you must notify the Office of Admissions and Records. It is your responsibility to drop the class. It is also extremely important that you notify Admissions and Records. Failure to do so will result in an "F" grade instead of a "W". If you change your address and/or telephone number during the semester please inform the Admission office.**

Laboratory Behavior and Safety:

- No food or drink is allowed in the lab.
- Follow instructions about the use of equipment and possibly hazardous materials.
- Clean and store all equipment properly at the end of each lab before you leave.
- Failure to follow these guidelines will result in a deduction of points from your grade.

American Disability Act:

El Camino College complies with section 504 of rehabilitation Act of 1973 and American Disability Act of 1990. Students with disability who need special accommodations should make their requests by contacting me.

Disclaimer Statement:

Instructor reserves the rights to make alterations/change to the course schedule, assignments, exams, quizzes, or due dates in the event of unforeseen events.

Tentative Lecture Schedule For Fall 2009

Date	Lecture Topic & Test Schedule	Chapter

08/31/09	Introduction; Study of Living Things	1
09/02/09	Atoms: Organisms are chemical Machines	3
09/09/09	Cell Structure& Function	5
09/14/09	Cell Division, Mitosis	9
09/16/09	Cell Division, Meiosis	10
09/21/09	Photosynthesis	7
09/23/09	Cellular Respiration	8
09/28/09	**Test I**	**1,3,5,7,8 9,10**
09/30/09	Genetics: heredity	11
10/05/09	Genetics: Protein Synthesis	13
10/07/09	Taxonomy	16
10/12/09	Cell Evolution	17
10/14/09	Plant Organization, seedless plants	11,13,16 17
10/19/09	**Test II**	**11,13,16 17**
10/21/09	Plant Reproduction, Seed Plants	18
10/26/09	Animal Kingdom Evolution	19
10/28/09	Coelomate Animals	19
11/02/09	Embryology, Echinoderms	19
11/04/09	Chordates	19
11/09/09	Animal Kingdom/chordata	19
11/11/09	Respiratory System	26
11/16/09	**Test III**	**18,19**
11/18/09	DVD. Life	
11/23/09	Reproduction System/Evolution	32
11/25/09	Anatomy and Sexual Hormones	32
11/30/09	Embryonic Development	32
12/02/09	Skin, First line Defense	29
12/07/09	Lymphatic System	29
12/09/09	Inflammatory System	29
12/14/09	**Test IV**	**All**

Tentative Lab Schedule For Fall 2009

Date	Lab Topic	Exercise
09/04/09	Scientific Method & Microscopy	M2 & Handout
09/11/09	Chem. Composition of Cell , Cell structure	M3, M4 enzymes

09/18/09	Cell Function, Mitosis & Meiosis	M4, M5
09/25/09	Cell Respiration &Photosynthesis	Handout
10/02/09	Enzymes& Genetics	M6, V17
10/09/09	Lab Evolution	Handout
10/16/09	Protista; Bacteria Protozoa, Fungi	V24, 25 V26, 27
10/23/09	**Lab Test I**	
10/30`/09	Seedless, Seed plants, Flowering Plants, Roots, stems, leaves	M9,M26 M27
11/06/09	Reproduction in Flowering Plants	M10,or M27.2
11/20/09	Porifera, Cnidaria	V36
12/04/09	Plathelminths, Nematodes, Mollusks	V37, V38
12/11/09	Arthropods & Annelids, Chordates Echinoderm&	V38,V3 M30
12/18/09	**Final lab Test**	