

**El Camino College-Torrance**  
**Biology 10 Fundamentals of Biology**  
**Fall 2009**                      **Dr. Diana Garcia**

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Section # 1100 Units 4 Office: NATS 120  
Lec Rm NATS 129 5:30-6:55 Lab Rm NATS 129 7-8:25 Tu-Th  
E-mail : d2garcia@lbcc.edu                      Voice mail (310-660-3593 X4737)  
Recommended Prerequisite: English 48

**Required Materials :**

1. Essentials of The Living World by G. Johnson & L. Losos, (Second Edition) 2008
2. Lab Book Bio 10 Laboratory Manual By Vodopich & Moore, Mader (12<sup>th</sup> Ed)
3. **Five(5)** Scantrons Form 884 green
4. **Eleven(11)** Quiz size Scantrons green

**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 Description:**

Bio 10 is a one semester introductory course that includes a systematic coverage of fundamental basic biological concepts. This course is a survey of all living things. Basic principles of structure, function, and relationships of living organisms are discussed with special emphasis on humans.

**Course Objectives:** Upon successful completion of this course, the student will be able to:

1. Describe the characteristics of living systems.
2. Explain how a cell and living systems are dependent on the study of chemistry and the molecules that make up living things.
3. Explain the structure of DNA and how it is used in protein synthesis.
4. List the general characteristics of a typical cell, relate cellular structures with their functions and explain how cells reproduce.
5. Demonstrate competence in working genetic problems and understanding genetic disorders caused by mutation and nondisjunction of chromosomes.
6. Define metabolism and homeostasis and explain how enzymes control metabolic processes involved in photosynthesis and respiration.
7. Recognize the structural, functional, and ecological features that characterize the major groups of Prokaryotes, Protists, Fungi, Plants and Animals.
8. Describe the integration of structure and function of plant tissues and organs in higher plants with emphasis on alternation of generations and reproduction involving flowers, fruits and seeds.
9. Recognize the major phyla of the animals and describe the structural features which make each phylum unique.

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10. Describe the organs and functions of vertebrate organ systems with special emphasis on humans.
  11. Apply the principles of natural selection to predict outcomes. Describe the role of speciation and the evidence for the common ancestry of life.
  12. Define basic ecological terms and describe relationships between populations and the environment including man's impact on the environment.

**Student Learning Outcome:**

Students will be able to use the compound and dissecting scope to observe cells and micro-organisms, measure the size of the objects

**Grading Basis:** There are 5 units in the class consisting of lectures. A class outline will indicate the general content of each unit, including topics, text, vocabulary, and test dates. The final exam will cover the last unit and is not comprehensive. Grades are based on a percentage of points received.

**SCALE**      90-100%=**A**, 80-89%=**B**, 65-79%=**C**, 55-64%=**D**, 0-54%=**F**

**There is a 10% deduction for a make-up exam and only ONE exam may be made up** with appropriate arrangements .

Laboratory practicals **may not be** made up. Each lecture exam is to be taken on a scantron answer sheet Form 884 which is available from the book store. Questions are multiple choice or matching,

Each Lecture/Practical lab Test and Final = **100 points each**

Laboratory Exercise STAMPS- **5 points each** dependent on **daily** attendance **and** each Lab stamped daily.

Quiz material and vocabulary assessments (11) will use a small Quiz scantron form. **Points=60** and Due(**NO LATES**) the session **before** each unit exam

**Students Conduct:**

**Classroom Behavior:** You are expected to be considerate to the other students by restraining from talking and distracting others during lectures. **Excessive talking during lectures is NOT appropriate. Students choose to attend college and pay to learn the subject matter. Cell Phones and pagers are to be turned off.**

**Satisfactory progress:**

**El Camino College-Torrance**  
**Biology 10 Fundamentals of Biology**  
**Fall 2009 Dr. Diana Garcia**

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Passing exam scores, good attendance, timely and accurate assignments, good attitude and work habits and will require a **minimum of 2 hours of study time outside of class for each hour spent in class.** Rereading and rewriting notes and making flash cards and forming study groups enhances academic performance.

**Cheating:** Cheating will not be tolerated and will result in a zero for the exam. Communication of any nature during exams is unacceptable and will result in 100% automatic deduction.

**Attendance Policy:**

- **Tardy:** **Three** are counted as **one** class absence
- **Absence:** **Four** unexcused absences may result in a drop from the course.
- **Excused absence:** such as emergencies, sickness, etc, requires notification and appropriate documents

**Attendance:** Regular attendance is required by college regulations and is essential for academic success. Contact your classmates for information from time missed.

**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".**

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**Biology 10 Fundamentals of Biology**  
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**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 for the use of equipment and potentially 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 contact me.

**Disclaimer Statement:**

The Instructor reserves the right to make alterations/changes to the course schedule, assignments, exams, assessments, or due dates in the event of unforeseen events.

**Important dates:**

Friday September 25: Last day to drop a 16-week class without record of enrollment

Friday November 20: Last day to drop a class and receive a "W"