

**BIO 192: GENERAL BIOLOGY II**  
**Summer Quarter 2008**

**Instructor: Mallon Harris, B.S., D.C.**  
**Credit Hours: 5**  
**Class Hours: 4**  
**Laboratory Hours: 3**

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**I. Prerequisites:** Successful completion of BIO 191: General Biology I

**II. Texts & Materials:**

Starr, Cecie and Ralph Taggart. (2004). *Biology, the Unity and Diversity of Life*, 11<sup>th</sup> ed. Pacific Grove, CA Brooks/Cole.

Laboratory Handouts will be distributed in class

**III. Course Description:**

This course provides an extension and expansion of concepts introduced in General Biology I, with a focus on complex organisms and populations. Topics include: population genetics, evolution, ecology and a survey of the six kingdom diversity. Hands-on laboratory experiences support classroom learning.

**IV. Course Goals/Objectives:** To successfully complete this course the student will:

- A. Describe the theory of evolution and how it impacts on taxonomy, ecology, and the three principles of biology.
- B. Describe the diversity of living things using the six kingdom model.
- C. Identify and classify representative organisms in to the appropriate kingdom.
- D. Describe the basic structures and functions of plants tissues, transpiration and reproduction.
- E. Describe the principles and concepts of ecology to include population dynamics, community interactions and ecosystems.

**V. Course Requirements:**

- A. To successfully complete this course the student must fulfill the following:
  1. Complete all reading assignments prior to class meeting times.
  2. Complete all examinations with a minimum average for all of 70%.
  3. Participate in and complete all laboratory exercises.
- B. Course attendance requirements:

Students who miss examinations may make up those examinations if they can provide a verified valid excuse. Excused absences are at the discretion of the instructor. Valid excuses may include serious illness, death in the family etc. An excused absence only allows the student to make up the missed examination, it does however, count toward your total absences.

**VI. Testing Procedures and Final Examinations:**

- A. There will be 4 tests given over lecture material, each worth 100 points. Each of these is not comprehensive nor cumulative. The format of these tests will be multiple choice, matching, labeling or short answer. The tentative schedule for these tests is listed below.
- B. There will 2 laboratory tests, each worth 100 points. Neither is comprehensive nor cumulative. The format for these tests is short answer or labeling. The tentative schedule for these tests is listed below. The tests must be taken on the day that they are scheduled. A missed test must be taken within a week of its scheduled date with a written or documented and valid excuse; otherwise the test will not be administered and the student will receive a grade of zero for that test.
- C. All tests must be taken on the day that they are given. An exception will be made for a student with an acceptable excuse given prior to or on the class period immediately after the missed test. Failure to make up the test within one week of the missed test will result in a grade of F

### **VII. Evaluation Procedures:**

- A. Each lecture test and laboratory test is worth 100 points.
- B. An academic performance grade will be given as an average percentage of total points, equal to the following grades according to Chattahoochee Technical College policy: 100 - 90% (A), 89 - 80% ( B), 79 - 70% (C), 69 - 60% (D), and less than 60% (F).
- C. A work ethics grade will also be given as ascribed by Chattahoochee Technical College. This grade will reflect evaluation of **attendance**, character, teamwork, appearance, attitude, productivity, organizational skills, communication, cooperation, and respect. The grading scale is as follows: exceeds expectations (3), meets expectations (2), needs improvement (1), and unacceptable (0).

### **VIII. Disability Accommodations:**

Students who need accommodations are asked to arrange a meeting during office hours during the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with office hours, an alternate time can be arranged. To set up this meeting, please contact me. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with Disability Services at 770-528-4529.

### **IX. Notice to Students Who Stop Attending Classes:**

- A. STUDENTS must initiate withdrawal from a course(s) by completing the appropriate form through the STUDENT SERVICES OFFICE.
- B. Instructors WILL NOT initiate withdrawal for students who stop attending any course(s). Withdrawal is a STUDENT option.
- C. STUDENTS withdrawing from a course(s) after the drop/add period (July 1-3) through the end of the 5<sup>th</sup> week of the quarter (August 06) will receive a grade of "W".
- D. STUDENTS withdrawing from a course(s) during the 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> week of the quarter (August 27) will receive a grade of "WP" or a "WF".
- E. STUDENTS who have not withdrawn or do not attend class after the end of the 8<sup>th</sup> week of the quarter (August 27) WILL NOT be withdrawn by the instructor and WILL receive the appropriate letter grade (A, B, C, D, F, S, or U).

### **X. Academic Dishonesty:**

A student is subject to disciplinary action by the institution which may include suspension or expulsion for academic dishonesty including cheating, plagiarism, and providing false information to the institution. Note: all forms of academic dishonesty including, but not limited to, cheating on a test, plagiarism, collusion, and falsification of information will be cause for discipline.

Cheating on a test is defined to the following:

- A. Copying from another student's test paper.
- B. Using materials during a test not authorized by the person giving the test.
- C. Collaborating with any other person during a test without permission.
- D. Knowingly obtaining, using, buying, selling, transporting, or soliciting, in whole or in part, the contents of any unadministered test.

- E. Bribing any other person to obtain information about tests.
- F. Substituting for another student or permitting any other person to substitute for oneself.

**XI. Plagiarism:**

Plagiarism is defined as the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit. Collusion is defined as the unauthorized collaboration with other person in preparing work offered for credit.

**XII. Attendance Policy:**

Students are expected to be punctual and attend all classes for which they are registered. Each student should recognize at the beginning of his/her postsecondary career that a mature acceptance of his/her responsibilities is a requisite for reasonable accomplishment in postsecondary work; this applies particularly in the area of class attendance. Students anticipating an absence or tardiness should contact the instructor in advance or provide notification as soon as possible. It is the responsibility of the student to account for instructional time missed and to make arrangements for make-up work at the convenience of the instructor. If the student does not attend classes, submit assignments, or, when applicable, contact instructors in a timely manner (either in person or by telephone), a failing grade(s) may be issued.

**XIII Offensive Statements:**

Offensive statements regarding one's race, sex, creed, national origin, physical disability or mental stability are not appropriate and will not be tolerated. These statements will be considered a violation of the standards of conduct as stated in the current Chattahoochee Technical College catalog.

**XIV. Electronic Devices:**

Electronic devices such as cellular phones, pagers etc., with audible ringers will not be tolerated in the classroom.

**XV. Warranty:**

Any graduate of Chattahoochee Technical College who is deficient in a competency identified in state program standard shall be retrained at the request of the employer at no cost to the employer or the employee for tuition or instructional fees. This warranty is valid for two consecutive years following the student's date of graduation.

**XVI. Tentative Lecture, Laboratory & Test Schedule: (Schedule is subject to change.)**

| <b>Date</b> | <b>Chapter/Laboratory Exercise</b>   |
|-------------|--|
| 07/01       | Chapter 17: Microevolution   |
| 07/03       | Chapter 18: Speciation<br>Laboratory Exercise: Evolution and Speciation                              |
| 07/08       | Chapter 19: The Macroevolutionary Puzzle<br>Laboratory Exercise: Macroevolution                      |
| 07/10       | Chapter 20: The Origin and Evolution of Life   |
| 07/15       | <b>Test 1: Chapters 17-20 TEST WILL START AT 6:15. DO NOT BE LATE</b><br>Chapter 23: Plant Evolution |
| 07/17       | Chapter 29: Plant Tissues<br>Laboratory Exercise: Fundamental Plant Tissues                          |

|       |  |
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| 07/22 | Chapter 30: Plant Nutrition and Transport<br>Laboratory Exercise: Plant Nutrition and Transport              |
| 07/24 | Chapter 31: Plant Reproduction<br>Laboratory Exercise: Flowers and Fruit                                     |
| 07/29 | Chapter 32: Plant Growth and Development<br>Laboratory Exercise: Plant Growth and Development                |
| 07/31 | <b>Test 2: Chapters 23, 29-32 TEST BEGINS AT 6:15. DO NOT BE LATE</b><br>Chapter 21: Prokaryotes and Viruses |
| 08/05 | <b>Laboratory Test 1</b><br>Chapter 21: Prokaryotes and Viruses (Con't)<br>Chapter 22: Protistans            |
| 08/07 | Chapter 22: Protistans (Con't)<br>Chapter 24: Fungi<br>Laboratory: Eubacteria and Protistans                 |
| 08/12 | Chapter 25: Animals: Invertebrates<br>Laboratory: Fungi  |
| 08/14 | Chapter 26: Animals: Vertebrates<br>Laboratory Exercise: Animal Diversity                                    |
| 08/19 | <b>Test 3: Chapters 21,22,24-26</b><br>Chapter 45: Population Ecology  |
| 08/21 | Chapter 46:Community Ecology<br>Chapter 47: Ecosystems   |
| 08/26 | Chapter 48: The Biosphere<br>Laboratory: Ecology   |
| 08/28 | Chapter 49: Behavioral Ecology<br>Laboratory Exercise: Biomes  |
| 09/02 | Chapter 50: Perspective on Humans and the Biosphere  |
| 09/04 | <b>Laboratory Test 2</b>   |
| 09/09 | <b>Test 4: Chapters 45-50</b>  |