INSTRUCTOR OFFICE PHONE E-MAIL
Lanna Bradshaw

DIVISION PHONE:
Biology 1407-43360 Lecture 1A 8:20 to 9:50,
        43361 Lecture 2A 10:07 to 11:37

Lecture and Lab are during the same period.

NOTE:
The instructor reserves the right to make any change that by his determination better facilitate the day-
to-day operation of the course.

COURSE DESCRIPTION:

BIOL 1407 Biology for Science Majors II (4) This is a Texas Common Course Number. Prerequisite: BIOL 1406. One of the following must be met: (1) Developmental Reading 0093 AND Developmental Writing 0093; (2) English as a Second Language (ESOL) 0044 AND 0054; or (3) have met Texas Success Initiative (TSI) Reading and Writing standards AND DCCCD Writing score prerequisite requirement. An introductory survey of current biological concepts for students majoring in the sciences. Emphasis will be placed on topics which include evolution, biological diversity, ecology, and comparative structure and function of organisms. (3 Lec., 3 Lab.) Coordinating Board Academic Approval Number 2601015103


Laboratory Manual: There is no lab manual for this course. Labs will be passed out or downloaded from blackboard on an as needed basis.

Blackboard:

Some of the course materials for this semester will be found on blackboard. Check it on a daily basis to be sure nothing has been added that you need for your next class.
GRADING RATIONALE:

All grades will be added together for the final point total. Final grade will be based on the following criteria.

100 - 90 = A
89 - 80 = B
79 - 70 = C
69 – 60 = D
Below 60 = F

GRADING:

Missed Exams: Students missing a Lecture Exam, providing they have notified the instructor of the absence prior to the next class they attend, will have an opportunity to make up the grade for that exam. A student will only be allowed to make up the grade for one missed exam.

PARTICIPATION:

1. FULL attendance in lab and lecture is considered essential to the successful completion of this course and is therefore required. All responsibility for makeup work is that of the student.

2. It is very difficult to make up a lab, try not to miss one if at all possible.

3. Excessive tardies make it difficult for you to keep info for the class in order. Please try to be on time.

4. Lab work or lab exams must be made-up at the convenience of the teacher.

5. Laboratory hand-ins cannot be turned in without COMPLETE laboratory attendance.

6. Any students needing special consideration should identify themselves (tutoring is available).

LECTURE EXAM SCHEDULE:

Lecture tests will be assigned according to when we finish the chapters. We will also try to have at least one quiz per chapter.

LECTURE EXAMS:

Each exam will be valued at 100 points. The majority of exam questions will be derived from lecture notes others will be from the reading. Exam questions will include matching, multiple choice, short answer, true/false, or diagrams. You will need to bring a pencil (#2) to each exam.
LAB EXAMS:

The lab exams will include those materials covered during the preceding units. If lab exams cannot be made up the student will have to write a paper over the topic.

EXTRA CREDIT ACTIVITIES:

Extra credit opportunities will be offered throughout the semester. They must be taken advantage of at the time it is offered. You will not be allowed to “make-up” extra credit.

OTHER:

NO FOOD OR DRINKS ARE ALLOWED IN THE CLASSROOM.

ALL ELECTRICAL EQUIPMENT IS TO BE TURNED OFF DURING LECTURE: THIS INCLUDES CELL PHONES, PAGERS, iPODS, COMPUTERS, ETC. You must get permission from the teacher to use electronic devices in the class room.

REMOVE HATS OR HOODIES DURING EXAMS

WITHDRAWAL POLICY

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by Thursday April 16, 2015 for Fall-2015 standard courses; non-standard course drop dates will differ. Failure to do so will result in your receiving a performance grade, usually an “F”. If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdrawal) in each class dropped. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admission’s/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office. If you drop a class via eConnect, make sure to print a copy of the confirmation and keep the copy. In the event of a discrepancy it will be the responsibility of the student to provide documentation of having dropped the class.

FOOD and DRINK POLICY

Food, drinks, and tobacco products are prohibited in classrooms.

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops
ACADEMIC HONESTY

Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student’s test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work. Collusion is the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. Academic dishonesty is a serious offense in college. You can be given a failing grade on an assignment or test, can be failed for the class, or you can even be suspended from college. Any student guilty of cheating, plagiarism, or collusion, on any assignment, will receive a failing grade for the semester and will be dismissed from class for the remainder of the semester.

Student Learning Outcomes BIOL 1407 Biology for Science Majors II Lecture

Your performance in each of these areas will be judged by grades obtained from assignments and exams that measure your understanding of the textbook material and laboratory experiments requiring you to follow a written procedure to collect and analyze scientific information.

1. Describe modern evolutionary synthesis, natural selection, Mendelian inheritance, micro and macroevolution, and speciation. 2. Describe phylogenetic relationships and classification schemes. 3. Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance. 4. Describe basic animal physiology and homeostasis as maintained by organ systems. 5. Compare different sexual and asexual life cycles noting their adaptive advantages. 6. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

BIOL 1107 Biology for Science Majors II Laboratory This laboratory-based course accompanies Biology 1307, Biology for Science Majors II. Laboratory activities will reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Co-requisite: BIOL 1307 – Biology for Science Majors II Learning Outcomes Upon successful completion of this laboratory-based course, students will: 1. Be able to apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data. 2. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory. 3. Communicate effectively the results of investigations. 4. Demonstrate knowledge of modern evolutionary synthesis,
natural selection, Mendelian inheritance, micro and macroevolution, and speciation. 5. Distinguish between phylogenetic relationships and classification schemes. 6. Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance. 7. Describe basic animal physiology and homeostasis as maintained by organ systems. 8. Compare different sexual and asexual life cycles noting their adaptive advantages. 9. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

BIOL 1407 Biology for Science Majors II (Lecture + Lab) This lecture and lab course should combine all of the elements of BIOL 1307, Biology for Science Majors II, and BIOL 1107, Biology for Science Majors II Lab, including the learning outcomes listed for both courses.

DEVELOPMENTAL COURSES

The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student’s basic academic skills in reading, writing and math. Passing the assessment is a prerequisite for enrollment in many college-level classes such as English 1301/1302, History 1301/1302, Math 1414, etc. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. In some cases retesting will also be required. It is up to each student to be aware and informed about requirements that are subject to change. Additional information is available from the TSI office.

https://www1.dcccd.edu/cat0910/admiss/tsi.cfm?loc=4

ADA SERVICES:

Students with a physical, mental or learning disability who require accommodations should contact the college Disability Services Office in C237. Call 972.860.8348 or email efcdso@dcccd.edu. For more information: http://www.eastfieldcollege.edu/SSI/DSO/index.html

RELIGIOUS HOLIDAY/OBSERVANCE:

Absences for observance of a religious holy day are excused. Notification of the absence must be given to the instructor in writing at least two weeks prior to the date of the holy day. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within at a mutually agreed upon time after the absence.
FAMILY EDUCATIONAL RIGHTS and PRIVACY ACT of 1974 (FERPA)

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

Eastfield College Email Policy

Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to:
http://www.dcccd.edu/netmail/home.html

REPEATABILITY ISSUE:

Pending legislative action and DCCCD Board approval, effective for Fall Semester 2005, the Dallas County Community Colleges will charge a higher tuition rate to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in a higher tuition to be charged. Developmental Studies and some other classes taken at any of the Dallas County Community Colleges since the Fall of 2002 semester. For complete information and updates, go to http://www.dcccd.edu/ThirdCourseAttempt/.

FINANCIAL AID STUDENTS:

If you are receiving Financial Aid grants or loans, you must begin attendance in all classes. Do not drop or stop attending any class without consulting the Financial Aid. Changes in your enrollment level and failing grades may require that you repay financial aid funds. Failure to contact the instructor will result in your name being submitted to the Financial Aid Office as a "non-attendee". All students receiving financial aid should open an E-mail account through NetMail. See directions in this syllabus for opening an E-mail account.

STOP BEFORE YOU DROP

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop.

You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions.
Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops

Children on Campus

The institution strives to protect an environment most conducive to teaching and learning for all enrolled students. Children who are taking part in organized scheduled activities or who are enrolled in specific classes are welcomed. Minor children, however, should not be brought to the institution unless closely supervised by their parent. Minor children should not be brought into classrooms, laboratories or other facilities of the college. This practice is disruptive to the learning process. In the case of an emergency where the student-parent has no alternative but to bring the child to campus, classroom faculty or the administrative heads of other units have full discretion as to whether a child may be allowed to quietly stay in the location. These individuals may require that children be removed by the student-parent from the setting if, in their opinion, the presence of the child is deemed to be disruptive to the learning process. For reasons of security and child welfare the institution will not permit unattended children to be left anywhere on the premises. Parents who have problems with childcare should visit the Counseling and/or Advisement Center to receive referrals to childcare services in the area.

EMERGENCY/INCLEMENT WEATHER:

In case of icy weather (if school is closed) your assignments will be on blackboard.

OBTAINING FINAL COURSE GRADES USING eConnect

Final Grade Reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office.

CLASSROOM ETIQUETTE

Since every student is entitled to full participation in class without interruption, all students are expected to be in class and prepared to begin on time. All pagers, wireless phones, electronic games, radios, tape or CD players or other devices that generate sound must be turned off when you enter the classroom. Disruption of class, whether by latecomers, noisy devices or inconsiderate behavior will not be tolerated. Repeated violations will be penalized and may result in expulsion from the class.
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<td>Cell cycle</td>
<td>Chromosome WS</td>
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<td>Jan 9-13</td>
<td>Meiosis &amp; Sexual life cycles</td>
<td>Karyotype WS Cellular respiration</td>
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<td>Jan 16-20</td>
<td>Mendel and Gene idea</td>
<td>Gene WS</td>
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<td>Jan 23-27</td>
<td>The chromosomal and molecular basis of inheritance</td>
<td>Meiosis and Meitosis lab</td>
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<td>Jan 30-3</td>
<td>From gene to protein</td>
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<tr>
<td>Feb 6-10</td>
<td>Genetics of Viruses and Bacteria</td>
<td>Transcription, translation WS Genetics of organisms</td>
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<td>Feb 13-17</td>
<td>Genetic basis of Development</td>
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<td>Feb 20-24</td>
<td>Mechanisms of evolution</td>
<td>Molecular biology</td>
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<td>Feb 27-2</td>
<td>Evolutionary History of Diversity</td>
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<td>Mar 5-9</td>
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<td>Mar 19-23</td>
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<td>Mar 26-30</td>
<td>Animals</td>
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<td>Apr 2-6</td>
<td>Circulation and Gas Exchange</td>
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<td>Apr 16-20</td>
<td>Immune System</td>
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<td>Apr 23-27</td>
<td>Osmoregulation and Excretion</td>
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<td>Hormones &amp; Endocrine system</td>
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<td>May 7-11</td>
<td>Reproduction</td>
<td>Reproduction ws</td>
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<td>May 14-18</td>
<td>Behavioral ecology</td>
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<td>May 21-25</td>
<td>Population ecology</td>
<td>Population genetics lab</td>
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May 28-31    Community ecology