

Eastfield College
Science and PE Division
BIOLOGY 1408 Syllabus

Course Title and Number

Biology for Non-Science Majors I
BIOL 1408- Section Number

Class Time

Lecture days of the week and time
Lab days of the week and time

Instructor

Name
Office:
Office hours or adjuncts by appointment
Office Phone:
Email

Course Description – in Eastfield College catalog

Presentation of biological concepts for the non-science major. Emphasis will be on scientists and their contributions to the science field, scientific problem solving, unity of life including cells and genetic information, energy pathways important to life, and current issues in biology. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 2601015103)

Prerequisites

None

Textbooks

Biology – Life on Earth with Physiology, 8th edition, Audesirk, T., Audesirk, G., and Byers, B., Pearson Prentice Hall, 2008, New Jersey, ISBN 0-13-100506-5.

Inquiry into Life Laboratory Manual, 12th edition, Mader, S., McGraw-Hill, 2008, New York, ISBN 0-07-298682-4.

Intellectual Competencies

1. Reading – The ability to analyze and interpret a variety of printed material – books, documents and articles.
2. Writing – The ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience.
3. Listening – analyze and interpret various forms of spoken communication.
4. Critical Thinking – Think and analyze at a critical level.
5. Computer Literacy – Understand our technological society, use computer based technology in communication, solving problems, acquiring information.

Educational Objectives

1. To understand and apply method and appropriate technology to the study of the natural sciences.

2. To recognize scientific and quantitative methods and the differences between these approaches and the other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
3. To identify and recognize the differences among competing scientific theories.
4. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
5. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

Educational Objective Activities

State each activity that is done in the classroom and which Educational Objective it meets. All educational objectives must be met.

Learning Outcomes

- 1) Demonstrate the scientific method by setting up an experiment using the knowledge gained from lab.
- 2) Apply Mendelian genetics by being able to solve different genetic problems.
- 3) Identify and explain the different parts of the cell including their function.
- 4) Compare and contrast cellular respiration and photosynthesis.
- 5) Explain the different parts of both male and female sexual reproductive systems in association with the different human systems.

Course Outline

<u>Week</u>	<u>Topic</u>	<u>Chapter</u>
1	An Introduction to Life on Earth	1
	Atoms, Molecules, and Life	2
2	Biological Molecules	3
3	Exam #1: Chapters 1, 2, 3, Cell Structure and Function	4
4	Cell Membrane, Structure and Function	5
5	Energy Flow in the Life of a Cell	6
6	Exam #2: Chapters 4, 5, 6 Capturing Solar Energy: Photosynthesis	7
7	Harvesting Energy: Glycolysis and Cellular Respiration	8
8	DNA: The Molecule of Heredity	9
9	Exam #3: Chapters 7, 8, 9 Gene Expression and Regulation	10
10	The Continuity of Life: Cellular Reproduction	11
11	Patterns of Inheritance	12
12	Exam #4: Chapters 10, 11, 12 Homeostasis and the Organization of the Animal Body	31
13	Thanksgiving Holiday on Thursday and Friday Animal Reproduction	40
14	Animal Development	41
15	Exam #5: Chapters 31, 40, 41 and Review	
16	Exam #6: Comprehensive Final Exam	

Grading Procedure

6 Major lecture exams* - 100 points each	= 600 points
2 Laboratory exams – 100 points each	= 200 points

Final Grade

716 – 800 pts	=	89.5-100%	=	A
636 – 715 pts	=	79.5-89%	=	B
556 – 635 pts	=	69.5-79%	=	C
476– 555 pts	=	59.5-69%	=	D
0 – 475 pts	=	0-59%	=	F

***Make-up Exams**

A comprehensive essay lecture exam will be given in case of a missed examination with an excused absence. If a laboratory practical is missed, you will receive a grade of **ZERO** for the exam.

Test Coverage

Included within the course outline

Test review material: Notes and website found on the inside cover of your textbook. Tutoring is available through the learning assistance center.

Writing across the curriculum

Writing is a required part of all biology courses. You will have writing assignments determined by your instructor.

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 Office. 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-attende.” All students receiving financial aid must open an Email account through NetMail. See directions in this syllabus for opening an Email account.

PLAGIARISM: This is the act of taking someone else’s words or ideas and using them as your own. I consider this cheating and academic dishonesty. You will receive a grade of a zero on the assignment and you will be subjected to the disciplinary actions under academic honesty.

ACADEMIC HONESTY:

The purpose of the Student Code of Conduct is to provide guidelines for the educational environment of The Dallas County Community College District. Such an environment presupposes both rights and responsibilities. Disciplinary regulations at the college are set forth in writing in order to give students general notice of prohibited conduct. Students should be aware of disciplinary actions for all forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion. Your College Catalog and the DCCCD Catalog contain the entire Student Code of Conduct, which is also on the Internet at <http://dcccd.edu>.

Attendance and Participation

Students are required to attend all classes.

Withdrawal Policy

If you wish to drop the course with a grade of “W” you must complete the necessary forms by contacting Admissions counseling or PE/Science Division office no later than **(Date assigned by college)**. An

instructor cannot withdraw a student. Your instructor is NOT responsible for initiating or recommending this action. Failure to withdraw will result in the student receiving a performance grade based on the criteria contained in this syllabus.

Drop Policy

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>.

EMERGENCY/INCLEMENT WEATHER PROCEDURE:

In case of emergency or inclement weather conditions, Eastfield students should listen to KEOM-FM Radio Station (88.5) as the primary media source. In partnership with the Mesquite Independent School District, Eastfield College Administration will notify KEOM immediately after a decision is made to cancel classes on any given day of inclement weather or for emergency purposes. Students may also monitor other local radio and television stations. The earliest an announcement may be broadcast on KEOM Radio is 6 a.m. Students may also refer to the Eastfield College web page www.eastfieldcollege.com for the Inclement Weather announcement under the Features area of the front page. **The announcement will be posted immediately following the decision to close the college.**

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 higher tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. For complete information and updates, go to: <http://www.dcccd.edu/ThirdCourseAttempt/>.

STUDENT E-MAIL:

Legal privacy issues prevent your instructor from discussing your work or your grades on commercial e-mail accounts. If you wish to send your papers as attachments to an e-mail (and the instructor permits it), or if you have a question about your grade, you must open a student e-mail account. The account is free. You may set it up by going to www.dcccd.edu and click on Student Services, Online Services, and Student NetMail. All students receiving financial aid must open a student NetMail account.

RELIGIOUS HOLIDAYS/OBSERVANCES:

Students who will be absent from class for the observance of a religious holiday must notify the instructor in advance. Please refer to the college catalog section on *Student Responsibilities*.

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>

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.

OBTAINING YOUR GRADES AT THE END OF THE SEMESTER:

Grade reports are no longer mailed. Convenient access is available online or by telephone. Just use your student identification number when you log in to e-Connect or call DCCCD Touch Tone Services. Web site address: <http://econnect.dccd.edu/>. Telephone number: 972-613-1818.

Classroom environment

1. Cheating on an exam will result in a grade of **ZERO** on that exam and a failing grade for the semester.
2. Cellular phones and beepers are to be turned off before the class starts.
3. No food or drinks are allowed in the classroom or in the laboratories.
4. No children are allowed in the classroom or in the laboratories.
5. Be on time, it is disruptive to other students when one is late for class. If you are late, you will not be permitted into class.
6. Do not talk while I or another student is talking. You will be given one warning if you are disrupting class. If a second offense occurs, you will be asked to leave the classroom.

PRINTING ON CAMPUS: Printing in the Computer Lab (L-108), Library, and Learning Assistance Center will cost 5 cents a page. Students must bring a \$1.00, \$5.00, \$10.00, or \$20.00 bill to the lab to create an account. Accounts must be created before attempting to print. No change is made in the lab. Once the money is in the bill acceptor, it cannot be retrieved. Cash refunds are not possible. Accounts stay active as long as the account has value.

The guidelines in this syllabus may be changed, deleted, or amended at any time by the instructor.