

Eastfield College  
Science and PE Division  
BIOL 2406 – Environmental Biology

**Course Title and Number**

Environmental Biology  
BIOL 2406 - 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:**

The principles of aquatic and terrestrial communities are presented. Emphasis is on the relationship of these principles to the problems facing people in a modern technological society. (3 Lec., 3 Lab.)  
Coordinating Board Academic Approval Number 0303035101

**Prerequisites:**

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.

**Textbooks**

Principles of Environmental Science – Inquiry and Applications, 5<sup>th</sup> edition. Cunningham W. P., and M.A. Cunningham. McGraw- Hill 2008. New York, ISBN 978-0-07-338319-4.

**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 environmental science.
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 environmental 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. Describe the function of biological systems with emphasis on the processes that affect populations, communities and ecosystems
2. Understand modern environmental problems with the goal of seeking solutions
3. Apply modern techniques for testing biological, chemical and physical factors of the environment
4. Learn how to become an environmentally aware citizen

**WRITING ACROSS THE CURRICULUM:**

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

**PLAGIARISM**

This is the act of taking someone else's words or ideas and using them as your own. This is academic dishonesty and will not be tolerated. You will receive a grade of 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 the 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>

**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 and Email account through NetMail. See directions in the syllabus for opening an Email account.

### **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 **Nov 12**. An instructor cannot withdraw a student. Your instructor is NOT responsible for initiating or recommending this action. Failure to withdraw will in the student receiving a performance grade on the criteria contained in the syllabus.

**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>

### **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 6am. Students may also refer to the Eastfield College webpage [www.eastfieldcollege.edu](http://www.eastfieldcollege.edu) 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, 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](http://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 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](mailto: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. Website address <http://econnect.dcccd.edu/>. Telephone number: 972-613-1818

**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.

**FIELD TRIPS:**

As part of the class requirements we will be having five field trips. Transportation arrangements will be discussed. Because of the nature of the activity, there are no make-ups. **All field trips start when students get to the assigned location.**

**Course Outline:**

<b>Week</b>	<b>Topic</b>	<b>Chapter</b>
1	Introduction	
	Understanding Our Environment	1
2	Environmental Systems	2
3	Species Populations, Interactions and Communities	3
4	Human Populations	4
	<b>Exam 1</b>	
5	Biomes and Biodiversity	5
6	Environmental Conservation	6
7	Food and Agriculture	7
8	Environmental Toxicology	8
	<b>Exam 2</b>	
9	Climate and Air Pollution	9
10	Water Resources and Conservation	10
11	Energy	12
12	Solid and Hazardous Waste	13
	<b>Exam 3</b>	
13	Economics and Urbanization	14
14	Environmental Policy and Sustainability	15
15	Conclusion	
	<b>Exam 4</b>	

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