

Syllabus
PRINCIPLES OF ENVIRONMENTAL HEALTH
Biol. 4354 (Sec. 001) and EVSE 5321(sec. 001)

INSTRUCTOR: JOHN CLELAND

E-mail: KM5CR@aol.com
Phone: 972-870-5988
Mailing Address: Department of Biology
Box 19498
The University of Texas at Arlington
Arlington, Texas 76019
Office: Adjunct Lecturer - no office on campus
Office Hours: The instructor will meet with students after class. Please make an appointment for a longer consultation period.

MAIL BOX:

Students may leave messages for the Instructor in the Biology Department Office (337 Life Science Building). Give your messages to a Departmental Secretary who will place them in the appropriate mailbox.

COURSE WWW SITE:

The Department of Biology Home Page address is www.uta.edu/biology/. On reaching the home page, click the box marked syllabi to find information on this course.

COURSE OBJECTIVE:

The goals of this course are two fold: first, to acquaint you with the basics of the broad scope of health considerations which are at the core of all environmental projects, and secondly, to provide you with the necessary knowledge to successfully pass any Registered Environmental Health Specialist examination.

STUDENT LEARNING OUTCOMES:

BIOL 4354 – Students will be able to analyze the various factors which describe the environmental health field such as: food protection procedures, illness awareness, water protection, other topics in the environmental health field. Students will be able to effectively complete national certification examinations.

BIOL 5321 - Students will be able to analyze the various factors which describe the environmental health field such as: food protection procedures, illness awareness, water protection, other topics in the environmental health field. Students will be able to effectively complete national certification examinations. Students will be able to present a detailed analysis of an environmental health topic.

These outcomes will be assessed using routine course tests and presentations and papers prepared by students.

CLASS PROCEDURES:

Students are expected to attend all classes, be on time, and arrive prepared to participate as appropriate. During the semester we will utilize collaborative groups to enhance the learning experience by allowing students to work in small (2 – 4 people) groups to discuss, research, produce, and/or present assigned topic reports. I hope you find this method of learning a meaningful experience. Students are expected to read assignments before coming to class. To encourage this behavior, short quizzes on the reading assignment will be given before lecture begins. One pre-lecture quiz grade will be dropped.

If at any time you feel your basic science background is holding you back, come see me. Nothing in the course will require knowledge beyond freshman level science course work. If you let me know you are in trouble before you get too deep, I think we can get you on track.

Some of the subjects that we will discuss are presented in more detail in other UTA course work. The purpose of this course is NOT to make you a toxicologist, enable you to pass the Class A Wastewater exam, or satisfy the requirements for OSHA Hazardous Materials training. Our goal is to provide you with an overview of the Environmental Health field. Most Civil Engineering projects and much medical research is directed towards enhancing Environmental Health. If you work in the Environmental field in any way, even if you do not intend to become a Registered Environmental Health professional, you should be an Environmental Health Professional. Our goal is to give you the information needed to help make you a Professional.

PREREQUISITES:

A basic knowledge of biology, chemistry and physics is assumed. Course time will not be devoted to extensive review of freshman level science.

GRADUATE STUDENTS:

Graduate students will be assigned a topic to research and present to the class. These will be assigned January 30. For example: you may be assigned to make a presentation as part of Swimming Pool Safety on April 9 or Chapter 10 on March 19. All graduate student presentations will be made after Spring Break. Graduate students will be expected to make a 45-minute presentation to the class, including any appropriate handouts. The rubric for evaluation will be provided on January 30.

TEXTBOOKS:

Required Lecture Text: D. W. Moeller's text *Environmental Health*, Third Edition, 2005.

Course schedule

We will cover most subjects presented in Professor D. W. Moeller's text "Environmental Health".

Jan. 16	Course Introduction
Jan. 23	Certifications and employment opportunities.
Jan . 30	Topic Introduction. Chapters 1 & 20 Report Topics Assigned Graduate Student Presentation Assignments
Feb. 6	Toxicology and Epidemiology. Chapters 2 & 3
Feb. 13	The workplace. Chapter 4
Feb. 20	Food protection. Chapter 6 & Handout
Feb. 27	Food and water protection. Chapter 7
Mar. 5	More about food, water, and liquid waste. Chapter 8
Mar. 12	Vectors, Pests, and Weeds. Chapter 10
Mar. 19	Spring Break – No Class
Mar. 26	Environmental Law and Standards. Chapter 14 & 15
April 2	Air quality: inside and out. Chapters 5 & 16
April 9	Swimming Pool safety. Handout
April 16	Emergency response. Chapter 19
April 23	Emerging Environmental Health Issues. Handout
April 30	Wrap up and Review – Graduate Student written reports due
May 7	Final Exam (Time and location to be announced)

COURSE GRADING SUMMARY FOR UNDERGRADUATE STUDENTS:

Source of Grade	Percentage of Final Grade
Pre-lecture Quizzes	40%
Class Projects/Reports	20%
Comprehensive Final Examination	40%
TOTAL GRADE	100%

COURSE GRADING SUMMARY FOR GRADUATE STUDENTS:

Source of Grade	Percentage of Final Grade
Pre-lecture Quizzes	40%
Special Presentation	20%
Class Projects/Reports	10%
Comprehensive Final Examination	30%
TOTAL GRADE	100%

EXAMINATION DATES:

Comprehensive Final Examination: 8:15 – 10:45 PM, Wednesday, 7 May 2008. Room to be announced if different than regular classroom.

MAKE-UP EXAMINATION POLICY:

Students are required to attend all examinations. Only valid, documented, excuses will be accepted for missing an examination. Without a valid excuse for missing an examination, a student will be assigned a grade of 0% for that examination. Make-up examinations must be taken within one week of missing a semester or final examination.

STUDENT EVALUATION OF TEACHING:

Student evaluations of teaching are considered important in improving the course. Students will be requested to fill out a **standard University course evaluation form** near the end of the semester using standard University procedures. Course evaluations are reviewed by the Department and Instructor after students have completed the course and have been assigned a final grade. The instructor welcomes discussions with students regarding the improvement of any aspect of the course.

ATTENDANCE AND DROP POLICIES:

Students must **attend all lectures**. Students will not be admitted to lecture after the first 20 minutes of class without prior approval from the instructor. **Attendance will be taken at each lecture. Students not attending class are unlikely to pass the course.** Quizzes missed due to unexcused absences or tardy will result in a grade of zero for that quiz. For students in Biol. 4354, the last day to drop with an automatic **W** is **28 March 2008**. After that date, a student dropping the class with a failing average will receive a grade of **F**.

BOMB THREATS:

If anyone is tempted to call in a bomb threat, be aware that UTA will attempt to trace the phone call and prosecute all responsible parties. Every effort will be made to avoid cancellation of presentations/tests caused by bomb threats. Unannounced alternate sites will be available for these classes. Your instructor will make you aware of alternate class sites in the event that your classroom is not available.

Drop for non-payment of tuition: Payment must be received by the term due date of January 9, 2008 or your registration will be cancelled. If your registration is cancelled for non-payment, you may reregister for classes but only if seats are available.

After Hours Safety Escort

The Sam Mav Escort service provides a service to assist students, faculty, staff and campus visitors to reach their destinations after regular business hours. The hours of service are 7:00 p.m. to 1:00 a.m., Sunday through Saturday. 817-272-3381

MavMail:

All students are assigned an email account and information about activating and using it is available at www.uta.edu/email. New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional charge to students for using this account, and it remains active as long as a student is enrolled at UT-Arlington. Students are responsible for checking their email regularly.

AMERICANS WITH DISABILITIES ACT:

The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation: reference **Public Law 93112 - The Rehabilitation Act of 1973** as amended. With the passage of new federal legislation entitled **Americans with Disabilities Act - (ADA)**, pursuant to section **504** of the **Rehabilitation Act**, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide **reasonable accommodation** to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with **informing the instructor at the beginning of the semester and providing authorized documentation through designated academic channels.**

If a student requires special accommodation in class or for or during examinations based on a disability, he or she should make an appointment to meet the Instructor in the privacy of his office during the **first week of the semester in order** to make sure that they are properly accommodated. Proper documentation of the student's disability prepared by the **UTA Office for Students with Disabilities** must be presented to the Instructor. **Any required accommodations must be arranged well prior to any examinations.** Students not requesting accommodations prior to examinations will not be re-examined.

ACADEMIC DISHONESTY:

It is the philosophy of The University of Texas at Arlington that **academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form.** All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

Definition of Academic or Scholastic Dishonesty:

Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. (*Regents Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22*).

The instructor will **enforce** the University's academic dishonesty code in all aspects of the course.

FINAL REVIEW WEEK:

A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabi. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week