ENVS 410 — Environmental Monitoring and Waste Management Lab

COURSE SYLLABUS: Spring 2013

Instructor: W. Ray Arnold, Ph.D. – Assistant Professor
Office Location: SCT 215
Office Hours: M: 2:00-4:00, W: 2:00-4:00 Th: 2:00-3:00
Office Phone: (903) 468-3271
Office Fax: (903) 886-5997
University Email Address: Ray.Arnold@tamuc.edu

COURSE INFORMATION

Materials – Readings, Supplementary Readings:

Laboratory Manual Not Required: None required

Readings: Supplemental reading materials or references will be provided

Course Description: This course is designed to provide an overview of the various sample collection, analytical, and data analysis techniques as they related to detection and control of pollution. We will cover the technical and regulatory aspects of the handling, control, and management of hazardous and nonhazardous wastes.

Student Learning Outcomes: Completion of these outcomes does not guarantee that you will pass this course.

1. Students will be able to define quality assurance and quality control.
2. Students will be able to calculate a sample standard deviation.
3. Students will be able to describe a waste manifest.

COURSE REQUIREMENTS

Instructional Methods:

Lecture, discussion, field trips, and videos

Activities:

I reserve the right to modify the assignments and schedule.

Assessment:

Minimum expectations:

1. Attend lectures and be punctual
2. Be attentive
3. Participate in class discussions
4. Be respectful to me and your classmates
5. Complete class assignments on time and on target
6. Be punctual on exam day; complete the three exams (including a comprehensive final exam)
7. Achieve an average grade of \( \geq 60 \% \) according to the grading basis (below)

Grade basis: The lab will count approximately 25\% of your overall class grade

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Laboratory Exercises</td>
<td>80%</td>
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<tr>
<td>Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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1. Penalty enforcement (I reserve the right to adjust your grade for violation of the minimum expectations)
2. Make-up exams will only be given if arrangements are made with the instructor before missing the scheduled exam. A documented excuse will be required. Otherwise, missing exams will be counted as zeroes in the overall grade computation.

TECHNOLOGY REQUIREMENTS

A handheld scientific calculator (e.g., TI 30 \( \approx \$9 \) at Walmart), a jump drive, and a computer with Microsoft Word, PowerPoint, and Excel.

ACCESS AND NAVIGATION

Access to a computer with Word, PowerPoint, and Excel and an internet connection

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement:

Contacting Your Instructor: If you have questions pertaining to the content of this course (e.g., questions about an exam, course due dates, grades, etc.), please contact me via email (i.e., my leo), phone, or come by my office. Though I am happy to see you anytime (time permitting), it may be easiest to find me during my office hours.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures:

Responsible Use of Technology — It is expected that all students will only use cell phones, PDAs, laptop computers, MP3 players and other technology outside of class time or when appropriate in class. Answering a cell phone, texting, listening to music or using a laptop computer for matters unrelated to the course may be grounds for dismissal from class and/or other penalties. Students are not allowed to use image, video, nor audio recording devices of any kind during class time without prior consent of the instructor.

University Specific Procedures:

ADA Statement

Students with Disabilities:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library
Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Code of Student Conduct from Student Guide Handbook).

<table>
<thead>
<tr>
<th>COURSE OUTLINE / CALENDAR</th>
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<tbody>
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<td>Schedule is approximate and subject to change</td>
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Jan 14 — Introduction, Syllabus, Safety Guidelines, Medical Contacts & Contract  
Jan 28 — Data Collection  
Feb 04 — Statistics - 1  
Feb 11 — Statistics - 2  
Feb 25 — Statistics - 3  
Mar 04 — Statistics - 4  
Mar 11 — Spring Break  
Mar 18 — Quality Assurance/Quality Control - 1  
Mar 25 — Quality Assurance/Quality Control - 2  
Apr 01 — Waste Related Documentation  
Apr 15 — Waste Analyses Related Documentation  
Apr 22 — Field Trip  
Apr 29 — Field Trip  
May 06 — Final Week - No Lab