Environmental Health
Department of Physical and Environmental Sciences
Fall 2015

A. COURSE INFORMATION

Course number/section: ESCI 4320.W01
Class meeting time: Online
Class location: Online via Blackboard
Course Website: http://Bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Nathan Payne
Office location: By appointment
Office hours: By appointment
Telephone: 361.945.1349
e-mail: Nathan.payne@tamucc.edu
Appointments: By email or phone

C. COURSE DESCRIPTION

Catalog Course Description
Overview of the toxicology and epidemiology of pollutants in the air, water and soil. Associations of environmental exposure with adverse health effects such as cancer, cardiovascular disease, and reproductive outcomes; also chemical markers and symptoms of disease. Pollutants studied include lead, asbestos, radiation, radon, noise, metals, halogenated hydrocarbons, aromatic hydrocarbons, silica, indoor air quality, formaldehyde, and outdoor air pollutants.

D. PREREQUISITES AND COREQUISITES

Prerequisites
None

Corequisites
None

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)
ISBN-10: 0763778907

Optional Textbook(s) or Other References
None
Supplies
None

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT
Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students should be able to:
1. Understand the basic concepts of toxicology, epidemiology, and regulations relating to the Environmental Health field
2. Understand the association of environmental pollutants and human adverse health effects
3. Identify types and sources of pollutants
4. Describe options of pollution monitors and controls.

G. INSTRUCTIONAL METHODS AND ACTIVITIES
Course content will be delivered via Blackboard.

H. MAJOR COURSE REQUIREMENTS AND GRADING
Achievement of the Course Objectives will be measured by weekly chapter quizzes, three exams, participation in a group discussion board, and weekly assignments.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
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<tbody>
<tr>
<td>Class Discussions (12 @ 10 points)</td>
<td>120 points</td>
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<tr>
<td>Article Reviews (12 @ 15 points)</td>
<td>180 points</td>
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<tr>
<td>Chapter Quizzes (12 @ 20 points)</td>
<td>240 points</td>
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<tr>
<td>Exams (3 @ 100 points)</td>
<td>300 points</td>
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I. COURSE CONTENT/SCHEDULE
<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>Wed, 8/27/2014</td>
<td>Classes Begin</td>
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<tr>
<td>Sun, 8/31</td>
<td>Chap 1 – Introduction: The Environment</td>
<td>Intro Discussion Due at midnight</td>
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<tr>
<td>9/1-9/7</td>
<td>Chap 2 – Environmental Epidemiology</td>
<td>Chap 2 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>9/8-9/14</td>
<td>Chap 3 - Environmental Toxicology</td>
<td>Chap 3 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
</tr>
<tr>
<td>9/15-9/21</td>
<td>Chap 4 – Environmental Policy and Regulation</td>
<td>Chap 4 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>9/22-9/28</td>
<td>Exam 1 (Chap 1-4) Background of the Field</td>
<td>Exam 1 on Sunday 9/28 (Chap 1-4)</td>
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<tr>
<td>9/29-10/5</td>
<td>Chap 5 – Zoonotic and Vector-Borne Diseases</td>
<td>Chap 5 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>10/6-10/12</td>
<td>Chap 6 – Toxic metals and Elements</td>
<td>Chap 6 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>10/13-10/19</td>
<td>Chap 7 – Pesticides and Other Organic Chemicals</td>
<td>Chap 7 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>10/20-10/26</td>
<td>Chap 8 – Ionizing and Non-ionizing Radiation</td>
<td>Chap 8 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>10/27-11/2</td>
<td>Exam 2 (Chap 5-8) Agents of Environmental Disease</td>
<td>Exam 2 on Sunday 11/2 (Chap 5-8)</td>
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<tr>
<td>11/3-11/9</td>
<td>Chap 9 – Water Quality</td>
<td>Chap 9 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<tr>
<td>11/10-11/16</td>
<td>Chap 10 – Air Quality</td>
<td>Chap 10 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<td>11/17-11/23</td>
<td>Chap 11 – Food Safety</td>
<td>Chap 11 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<td>11/24-11/30</td>
<td>Chap 12 – Solid and Liquid Wastes</td>
<td>Chap 12 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<td>12/1-12/7</td>
<td>Chap 13 – Occupational Health</td>
<td>Chap 13 Discussion, Quiz, and Article Review Due Sunday @ 11:59pm</td>
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<td>12/10</td>
<td>Exam 3 (Chap 9-13) Applications of Environmental Health</td>
<td>Exam 3 on Wednesday 12/10 (Chap 9-13)</td>
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Note: Changes in this course schedule may be necessary and will be announced to the class by
the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

J. COURSE POLICIES

Late Work and Make-up Exams
Make up exams will only be given for University excused absences to attend University sanctioned events (ie. Athletic teams, Health and Safety conference) or documented medical reasons. In those cases it is the responsibility of the student to arrange for scheduling of a makeup exam no later than one week after the regular scheduled exam.

K. COLLEGE AND UNIVERSITY POLICIES

• Academic Integrity (University)
It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior.
See Full University Policy at http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity

• Classroom/Professional Behavior
All students are expected to follow proper behavior and treat other students and the instructor with respect. Repeated disruptive behavior will make the student subject to dismissal from the class for the semester.

• Deadline for Dropping a Course with a Grade of W (University)
The grade of W will be assigned to any student officially dropping a course by Friday, June 19, 2015. No student is eligible to receive a W without completing the official drop process by this deadline. Visit the Office of the University Registrar for the Course Drop Form that must be submitted. After June 19, 2015 a student will not be allowed to drop a course.

• Grade Appeals (College of Science and Engineering)
As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at
http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and Engineering Grade Appeals webpage at http://sci.tamucc.edu/students/GradeAppeal.html. For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
  Disability Services (DS) is the hub for coordinating services and accommodations to ensure accessibility and utilization of all programs for all Texas A&M University-Corpus Christi students with disabilities. Our services are designed to meet the unique educational needs of enrolled students with documented permanent or temporary disabilities. DS provides intake and consultation services to students seeking to register with our office. DS reviews an individual’s documentation of disability and assesses eligibility for services and the determination of reasonable accommodations. For more information visit the Disability Services Office at 116 Corpus Christi Hall or go to http://disabilityservices.tamucc.edu/

**GENERAL DISCLAIMER**
I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes online in a timely manner through Blackboard.