Industrial Hygiene ESCI 4322
Department of Physical and Environmental Sciences
Summer 2017

A. COURSE INFORMATION

Course number/section: ESCI 4322.W01
Class meeting time: Online
Class location: Online via Blackboard
Course Website: http://Bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Nathan Payne
Office location: virtual; meetings conducted by telephone call or online.
Office hours: Tues 5-6pm. Additional hours available by appointment
Telephone: 361.945.1349
e-mail: Nathan.payne@tamucc.edu
Appointments: By email or phone

C. COURSE DESCRIPTION

Catalog Course Description
Health protection practices in the industrial environment. Health basis for OSHA laws, regulations. Sampling and testing procedures.

D. PREREQUISITES AND COREQUISITES

Prerequisites
None
Corequisites
None

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)

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 ethics in industrial hygiene practices.
2. Recognize and identify common workplace illness and their associated causes and treatment.
3. Understand the federal and state regulations regarding the practice of industrial hygiene.
4. Recognize basic industrial hygiene sampling equipment.

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 (15 @ 10 points)</td>
<td>150 points</td>
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<tr>
<td>Observation Assignments (3 @ 50 points)</td>
<td>150 points</td>
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<tr>
<td>Chapter Quizzes (14 @ 15 points)</td>
<td>210 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>Tues, 5/30-6/4</td>
<td>Chap 1 - Introduction to Industrial Hygiene</td>
<td>Chap 1 Quiz and Discussion due by 6/4 at 11:59pm</td>
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<tr>
<td>6/5-6/11</td>
<td>Chap 2 – Occupational Safety and Health Act and Industrial Hygiene / Chap 3 – Management Systems</td>
<td>Chap 2/3 Quiz and Discussion due by 6/11 at 11:59pm</td>
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<tr>
<td>6/12-6/18</td>
<td>Chap 4 – Basic Concepts in Industrial Toxicology / Chap 5 – Occupational Exposure Limits and Assessment of Chemical Risks</td>
<td>Chap 4/5 Quiz and Discussion due by 6/18 at 11:59pm</td>
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<tr>
<td>6/19-6/25</td>
<td>Chap 6 – Gases and Vapors / Chap 7 - Aerosols</td>
<td>Chap 6/7 Quiz and Discussion due by 6/25 at 11:59pm; Exam 1 on Sunday 6/25 (Chap 1-5)</td>
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<tr>
<td>6/26-7/2</td>
<td>Chap 8 – Ventilation / Chap 9 – Respiratory Protection</td>
<td>Chap 8/9 Quiz and Discussion due by 7/2 at 11:59pm</td>
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<tr>
<td>7/3-7/9</td>
<td>Chap 10 – Dermal Hazards</td>
<td>Chap 10 Quiz and Discussion due by 7/9 at 11:59pm</td>
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<tr>
<td>7/10-7/16</td>
<td>Chap 11 - Noise / Chap 12 – Radiation</td>
<td>Chap 11/12 Quiz and Discussion due by 7/16 at 11:59pm Exam 2 on Sunday 7/23 (Chap 10-14);</td>
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<td>7/17-7/23</td>
<td>Chap 13 – Thermal Stressors</td>
<td>Chap 13 Quiz and Discussion due by 7/23 at 11:59pm;</td>
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<td>7/24-7/30</td>
<td>Chap 14 – Ergonomics</td>
<td>Chap 14 Quiz and Discussion due by 7/30 at 11:59pm</td>
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<td>7/31-8/4</td>
<td>Chap 15 – Biological Hazards; Exam 3</td>
<td>Chap 15 Quiz and Discussion due by 7/30 at 11:59pm; Exam 3 on Friday 8/4 (Chap 10-15)</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. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar (http://www.tamucc.edu/academics/calendar/) for the last day 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**
  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 believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

http://disabilityservices.tamucc.edu/

• **Statement of Academic Continuity**
In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

L. **OTHER INFORMATION**

• **Academic Advising**
The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

**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.