Occupational Safety & Accident Prevention
Division of Science
Spring 2015

A. COURSE INFORMATION
Course number/section: ESCI 4365.001
Class meeting time: Online
Class location: Online via Blackboard
Course Website:

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
This course provides students with the knowledge of regulatory requirements of occupational safety and the skills to identify, evaluate, and recommend control measures to workplace issues regarding to health and safety issues.

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. Recognize and identify potential health & safety hazards in the workplace and recommend corrective actions.
2. Conduct accident investigations, determine causes, and recommend corrective actions.
3. Apply techniques of accident prevention to the workplace.
4. Perform an ergonomic evaluation for a worker and his/her workstation.
5. Perform a job safety analysis and develop Safe Operating Procedures for that job.
6. Prepare and present a 5-minute safety brief.

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>3 Exams</td>
<td>35%</td>
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<tr>
<td>15 Quizzes</td>
<td>25%</td>
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<tr>
<td>Assignments</td>
<td>25%</td>
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<tr>
<td>Discussion</td>
<td>15%</td>
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I. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>CHAPTER</th>
<th>ASSIGNMENTS</th>
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<tbody>
<tr>
<td>Wed, Jan 21</td>
<td>Safety Through Design</td>
<td>Chapter 1</td>
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<tr>
<td>Mon, Jan 26</td>
<td>Buildings and Facility Layout</td>
<td>Chapter 2</td>
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<tr>
<td>Mon, Feb 2</td>
<td>Construction of Facilities</td>
<td>Chapter 3</td>
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<tr>
<td>Mon, Feb 9</td>
<td>Maintenance of Facilities</td>
<td>Chapter 4</td>
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<tr>
<td>Sun, Feb 15</td>
<td>Exam 1 – Chapters 1-4</td>
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<tr>
<td>Mon, Feb 16</td>
<td>Boilers and Unfired Pressure Vessels</td>
<td>Chapter 5</td>
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<tr>
<td>Mon, Feb 23</td>
<td>Safeguarding</td>
<td>Chapter 6</td>
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<tr>
<td>Mon, Mar 2</td>
<td>Personal Protective Equipment</td>
<td>Chapter 7</td>
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<td>Mon, Mar 9</td>
<td>Industrial Sanitation and Personnel Facilities</td>
<td>Chapter 8</td>
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<tr>
<td>Mon, Mar 16</td>
<td>Occupational Medical Surveillance</td>
<td>Chapter 9</td>
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<tr>
<td>Mar 16-20</td>
<td>SPRING BREAK</td>
<td></td>
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<td>Sun, Mar 22</td>
<td>Exam 2 – Chapter 5-9</td>
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<tr>
<td>Mon, Mar 23</td>
<td>Electrical Safety</td>
<td>Chapter 10</td>
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<td>Mon, Mar 30</td>
<td>Fire Protection</td>
<td>Chapter 11</td>
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<tr>
<td>Mon, Apr 6</td>
<td>Flammable and Combustible Liquids</td>
<td>Chapter 12</td>
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<td>Mon, Apr 13</td>
<td>Workers with Disabilities</td>
<td>Chapter 13</td>
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<td>Mon, Apr 20</td>
<td>Nano-materials in the Workplace</td>
<td>Chapter 14</td>
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<td>Mon, Apr 27</td>
<td>Materials Handling and Storage</td>
<td>Chapter 15</td>
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<td>Mon, May 6</td>
<td>Exam 3 – Chapters 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 classroom 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, April 10, 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 April 10, 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 in a timely manner during regularly scheduled lecture periods.