Course: TECH 3344  
Title: Industrial Safety  
Section: 01  
Semester: Fall 2013  
Class Time: W 6:00PM-8:40PM

Instructor: Dr. Dominick E. Fazarro, Ph.D.  
Office: 242  
Office Hours: W 9-10, 2-4pm; TH 4-5pm  
Other Availability: N/A  
Phone: 903.565.5911  
Email: dfazarro@uttyler.edu  
Preferred Contact: N/A

Course Content:
The study of environmental health and safety practices at is relates to business and industry. This course will provide useful practical knowledge for workplace safety which is mandated by OSHA. Students will also identify, evaluate and control hazards and potential hazards to prevent or mitigate harm or damage to people property, or the environment.

Course Learning Objectives:
Students completing this course should be able to:

- Identify hazard and potential hazardous areas by successfully passing quizzes and exams with a 70% or better.
- Conduct safety audits by successfully passing exams with a 70% or better.
- Improve safety practices by successfully passing quizzes and exams with a 70% or better.
- Assess safety practices and programs by successfully passing exams with a 70% or better.

Required Textbook
**Course Competencies**: Listed below.

<table>
<thead>
<tr>
<th>Course Competencies</th>
<th>TECH 3344</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer-Based Skills</strong> – the student will complete written assignments using the word processor.</td>
<td>X</td>
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<tr>
<td><strong>Communication Skills</strong> – the student will exhibit a mastery of both written and oral skills in completion and presentation of the assigned projects.</td>
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<tr>
<td><strong>Interpersonal Skills</strong> – the student will interact in class discussion to clarify thinking regarding technological progress.</td>
<td>X</td>
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<tr>
<td><strong>Problem Solving (Critical Thinking)</strong> – the student will use conceptual thinking to analyze and make determinations regarding the use of industrial processing equipment.</td>
<td>X</td>
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<tr>
<td><strong>Ethical Issues in Decision Making and Behavior</strong>– the student will gain an appreciation of the ethics of technology through examination of various processing.</td>
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<tr>
<td><strong>Personal Accountability for Achievement</strong> – the student will complete the projects at the time designated by the instructor and will enter into class discussion.</td>
<td>X</td>
</tr>
</tbody>
</table>
| **Competence in Technology Principles**  
  a. Competence in major field and grounding in other major technology major core areas – the student will gain an appreciation of the benefits and problems of technological growth.  
  b. Exposure to and appreciation for industrial experiences such as industrial tours, work-study options and cooperative education, senior seminars – This competency is not addressed in this course | X |

**Grading Policy and Criteria to Determine Final Course Grade:**

Exploration trips, videos, and guest speakers will be supplemental to the course

**Assignments**

- **5 Assignments (20pts)**  
  (10%) =100 points possible
- **4 Case Studies (30pts)**  
  (15%) =120 points possible
- **Test (1)**  
  (30%) =100 points possible
- **Test (2)***  
  (45%) =100 points possible

**TOTAL** = 420 POINTS

*OSHA 30 hour exam

Please refer to the point accumulation break down for each letter grade

- **A** = 420-378
- **B** = 377-301
- **C** = 299-209
- **D** = 208-124
- **F** = BELOW 124

**Note:** 89.9999999999999999 is still a B.
Date of Final Exam:  
December 10-14, 2013

Date to Withdraw Without Penalty:  
October 28, 2013

Schedule for semester:

<table>
<thead>
<tr>
<th>Date/Assignment Issued</th>
<th>No.</th>
<th>Topic/Activity</th>
<th>Reading (Pgs.) DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 28</td>
<td>1</td>
<td>ORIENTATION</td>
<td>-</td>
</tr>
<tr>
<td>Sept 4</td>
<td>2</td>
<td>Chapter-1: The Safety and Health Manager</td>
<td>1-13</td>
</tr>
<tr>
<td>Sept 4</td>
<td>2</td>
<td>Chapter-2: Development of the Safety and Health Function</td>
<td>14-51</td>
</tr>
<tr>
<td>Sept 4</td>
<td>2</td>
<td>Assignment</td>
<td>SEPT 10</td>
</tr>
<tr>
<td>Sept 11</td>
<td>3</td>
<td>Chapter-3: Concepts of Hazard Avoidance</td>
<td>52-87</td>
</tr>
<tr>
<td>Sept 11</td>
<td>3</td>
<td>Chapter -4: Impact of Federal Regulation</td>
<td>88-113</td>
</tr>
<tr>
<td>Sept 11</td>
<td>3</td>
<td>Assignment</td>
<td>SEPT 17</td>
</tr>
<tr>
<td>Sept 17</td>
<td>4</td>
<td>EXAM 1 (covers chapters 1-4)</td>
<td>-</td>
</tr>
<tr>
<td>Sept 25</td>
<td>4</td>
<td>OSHA 30-HOUR TRAINING</td>
<td>-</td>
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<tr>
<td>Sept 25</td>
<td>5</td>
<td>Intro. to OSHA</td>
<td>-</td>
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<tr>
<td>Sept 25</td>
<td>5</td>
<td>Health and Safety Programs</td>
<td>-</td>
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<tr>
<td>Sept 25</td>
<td>5</td>
<td>Occupational Health (READ CHAPTER 12)</td>
<td>284-313</td>
</tr>
<tr>
<td>Sept 25</td>
<td>5</td>
<td>Assignment</td>
<td>OCT 1</td>
</tr>
<tr>
<td>Oct 2</td>
<td>6</td>
<td>Electrical Safety (CHAPTER 17)</td>
<td>443-465</td>
</tr>
<tr>
<td>Oct 2</td>
<td>6</td>
<td>Personal Protective Equipment (PPE) (READ CHAPTER 12)</td>
<td>284-313</td>
</tr>
<tr>
<td>Oct 2</td>
<td>6</td>
<td>Eye and Face Protection (READ CHAPTER 12)</td>
<td>284-313</td>
</tr>
<tr>
<td>Oct 2</td>
<td>6</td>
<td>Confined Space Hazard &amp; Procedures (READ CHAPTER 12)</td>
<td>284-313</td>
</tr>
<tr>
<td>Oct 2</td>
<td>6</td>
<td>Assignment</td>
<td>OCT 8</td>
</tr>
<tr>
<td>Oct 9</td>
<td>7</td>
<td>Walkways and Working Surfaces (READ CHAPTER 7)</td>
<td>145-163</td>
</tr>
<tr>
<td>Oct 9</td>
<td>7</td>
<td>Machine Guarding (READ CHAPTER 15)</td>
<td>362-410</td>
</tr>
<tr>
<td>Oct 9</td>
<td>7</td>
<td>Material Handling (READ CHAPTER 14)</td>
<td>328-356</td>
</tr>
<tr>
<td>Oct 9</td>
<td>7</td>
<td>CASE STUDY</td>
<td>OCT 15</td>
</tr>
<tr>
<td>Oct 23</td>
<td>8</td>
<td>Hazard Communication</td>
<td>-</td>
</tr>
<tr>
<td>Oct 23</td>
<td>8</td>
<td>Bloodborne Pathogens</td>
<td>-</td>
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<tr>
<td>Oct 23</td>
<td>8</td>
<td>Tools (Hand and Power)</td>
<td>-</td>
</tr>
<tr>
<td>Oct 23</td>
<td>8</td>
<td>CASE STUDY</td>
<td>OCT 29</td>
</tr>
<tr>
<td>OCT 30</td>
<td>9</td>
<td>Welding Cutting &amp; Brazing (READ CHAPTER 16)</td>
<td>418-435</td>
</tr>
<tr>
<td>OCT 30</td>
<td>9</td>
<td>Lockout &amp; Tagout</td>
<td>-</td>
</tr>
<tr>
<td>OCT 30</td>
<td>9</td>
<td>Flammable and Combustible Liquids* (READ CHAPTER 11)</td>
<td>263-283</td>
</tr>
<tr>
<td>OCT 30</td>
<td>9</td>
<td>Assignment</td>
<td>NOV 5</td>
</tr>
<tr>
<td>OCT 30</td>
<td>9</td>
<td>CASE STUDY</td>
<td>NOV 26</td>
</tr>
</tbody>
</table>
**Description of Exams/Final Project**

**Exam 1**- The format for test 1 will consist of multiple choice, true and false and essay.

**Exam 2**- Students will be issued an OSHA exam for receiving the OSHA 30-hour card. The topics covered for the OSHA 30-hour card are:

- Intro. to OSHA
- Electrical Safety
- Walkways and Working Surfaces
- Means of Egress and Emergency Plan
- Flammable and Combustible Liquids*
- Personal Protective Equipment (PPE)
- Machine Guarding
- Eye and Face Protection
- Material Handling
- Hazard Communication
- Bloodborne Pathogens
- Health & Safety Programs
- Occupational Health
- Tools (Hand and Power)
- Welding Cutting & Brazing
- Confined Space Hazard & Procedures
- Lockout & Tagout

**TEST WILL BE CLOSED BOOK!!!**

*Covered if time is permitted*

**PLEASE READ CAREFULLY!!!!!**

***Thirty hours/1800 minute training will require students to sign in on the official OSHA sign in sheet.

If you miss a training session you cannot continue to pursue the certification. An alternate test will be given to students so they can still receive a grade for test 2.

***You MUST pass the OSHA exam with 80 % score!!!!

***IF YOU ALREADY POSSESS AN OSHA-30 HOUR CARD, AN ALTERNATE ASSIGNMENT/TEST WILL BE GIVEN.

**Grade Dispute**

If you have a disagreement with your final grade, you have 1 week to resolve it. You must bring all of your assignments when meeting with the instructor.

**Using Blackboard for Turning in Assignments**

Blackboard will be the tool for communication and turning in assignments. **ALL ASSIGNMENT MUST BE TURNED IN USING BLACKBOARD BY 11PM.** Folders will be created for each assignment to attach your assignments. Each assignment will have a due date. **IF YOU DO NOT MEET THE DUE DATE FOR THE**
ASSIGNMENT, THE FOLDER WILL DEACTIVATE. THEREFORE, YOU WILL NOT BE ABLE TO TURN YOUR ASSIGNMENT. YOU WILL NOT RECEIVE CREDIT. The only exception to turn in an assignment after the due date is if you are ill (with a written excuse) or technical difficulties. IT IS YOUR RESPONSIBILITY TO COMMUNICATE WITH TECHNICAL SERVICES TO RESOLVE YOUR BLACKBOARD MALFUNCTIONS.

Supplies
1”-2” three ring notebook and a flash drive (1G to 32G)

Attendance and Make-Up Policy:
Attendance is expected in this course in order to achieve maximum learning for all participants. Unforeseen circumstances do sometimes arise, so periodic absences may occur. If you find that you must miss a class meeting, please contact the instructor prior to the start of class. Please be on time. If you must arrive late, let the instructor know prior to the start of class. Laptops are permitted but the wireless internet card must be disabled during the class. Also, cell phones must be turned off and put away during class.

If a student is sick or have a death in the immediate family, the instructor will discuss the arrangements for turning in make-up work. The student must have written proof to make up an assignment or exam.

Writing Assistance
Each student is entitled to free writing assistance in the Writing Center. Students who take advantage of this service will receive five extra points on essay grades if they take their drafts to the Writing Center. The student must provide documentation that he or she received assistance in the Center. An appointment is strongly advised.

Required Activities Scheduled Outside of Regularly-Scheduled Class time (fees, tickets, procedures and/or forms required):
There will be one exploration trip for the semester. More information will be provided once the course begins.

Department Website: www.utyler.edu/hrdt

Students Rights and Responsibilities
To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www.utyler.edu/wellness/StudentRightsandResponsibilities.html

Grade Replacement/Forgiveness
If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by the 12th day of class. Failure to do so will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates will receive grade forgiveness (grade replacement) for only three course repeats; graduates, for two course repeats during his/her career at UT Tyler.

State-Mandated Course Drop Policy
Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the 12th day of class (See Schedule of Classes for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Registrar's Office and must be accompanied by documentation of the extenuating circumstance. Please contact the Registrar's Office if you have any questions.
Disability Services
In accordance with federal law, a student requesting accommodation must provide documentation of his/her disability to the Disability Support Services counselor. If you have a disability, including a learning disability, for which you request an accommodation, please contact Ida MacDonald in the Disability Support Services office in UC 282, or call (903) 566-7079.

Student Absence due to Religious Observance
Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities
If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:
It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:
Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Expected Classroom Etiquette
The University of Texas at Tyler is committed to promoting a level of classroom etiquette that is conducive to maximum teaching and learning. Therefore, the following etiquette is expected of students:

1. Attend class each time the class meets.
2. Be on time for class and remain for the entire period. Students are inconsiderate of their classmates when they arrive late and leave early.
3. Refrain from talking while the teacher or another student is lecturing. Idle chattering and giggling are disruptive to the class and disrespectful to the teacher and classmates.
4. Without prior approval from the instructor, students are not allowed to use cell-phones, devices with earphones in class. **LAPTOPS MAY BE USED FOR TAKING NOTES ONLY!!!!**
5. Be attentive and participate in class.
6. Refrain from eating and drinking in the classroom.