



## **TMGT 421- Construction Safety**

Fall Semester 2014

### **COURSE DESCRIPTION**

Safety and loss control concepts, practices, and skills to improve construction job site safety; OSHA regulations, accidents, documentation, safety policies and procedures, safe work environments, crisis management, risk management, and other safety related topics.

### **PROFESSOR**

**Nilo Tsung** CEng, PE, PhD  
Assistant Professor  
Department of Engineering and Technology  
College of Science, Engineering and Agriculture

### **CONTACT INFORMATION**

**Office:** Room 204, AG/IT Building

**Office Hours:** 2:30 – 5:00 PM Tuesdays and Wednesdays or by appointment

**Office Telephone:** 903-886-5464

**E-mail:** [nilo.tsung@tamuc.edu](mailto:nilo.tsung@tamuc.edu)

**Department fax number:** 903-886-5960

### **CLASS MEETINGS INFORMATION**

**Time:** 1:00 – 2:15 PM Tuesday and Thursday

**Location:** Ag/IT 126

### **COURSE OBJECTIVES**

1. Safety movement as well as basic theories and concepts on construction safety
2. Accident causation, investigation, reporting, and record keeping
3. OSHA's construction standard 29 CFR 1926 and related safety practices
4. Design for construction safety

## **REQUIRED COURSE MATERIALS**

### **Textbook:**

Goetsch, David L. (2013). *Construction Safety & Health* (2nd edition). Pearson Education, Inc., Upper Saddle River, New Jersey. ISBN -13: 978-0-13-237469-9.

### **Supplementary reading:**

*29 CFR 1926 Construction Industry Regulations Book* (latest edition). ISBN: 1-59959-426-9.

## **ATTENDANCE POLICY**

Every student is expected to attend all classes to acquire the information and knowledge covered in the class. Students themselves are responsible to obtain the materials covered in the classes they have missed. No effort will be made by the instructor to track down missing students and/or assignments.

## **HOMEWORK ASSIGNMENT POLICY**

A grade of "0" will be assigned to late assignments, unless prior arrangements are worked out with the instructor. The instructor has the final decision on whether late work will be accepted. Late penalties will be assessed to any approved late work.

## **COURSE GRADING**

Attendance and class participation: 10%

10 quizzes: 30%

Midterm exam: 30%

Final exam: 30%

## **GRADING SCALE**

90-100%: A;

80-89%: B;

70-79%: C;

60-69%: D;

<60%: F.

## **ACADEMIC DISHONESTY**

Texas A&M University-Commerce will not condone plagiarism in any form. Plagiarism represents disregard for academic standards and is strictly against University policy. Plagiarized work can result in a "0" on a given assignment(s) or an "F" for the course as well as further administrative sanctions permitted under University policy. You may discuss course work and other course materials with fellow students (except during tests), but it is inappropriate to have another student do your course work or provide you with any portion of it.

Guidelines for properly quoting someone else's writings and the proper citing of sources can be found in the APA Publication Manual. If you do not understand the term "plagiarism", or if you have difficulty summarizing or documenting sources, contact your professor for assistance.

## **STUDENT BEHAVIOR**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. Students are expected to be fully compliant with the Code of Student Conduct, defined in the current Student Guidebook.

Students are expected to attend all class periods and to be prepared for each class. Students are expected to refrain from any disruptive behaviors during class, which includes but is not limited to working on assignments/projects from another course, reading non-course materials, or using the computer for non-class purposes. Cell phones, iPods, and other electronic devices should be turned off during class.

## **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](mailto:StudentDisabilityServices@tamuc.edu)**

**COURSE SCHEDULE** (schedule is subject to change)

<b>Week No. &amp; Dates</b> (mm/dd – mm/dd)	<b>Weekly Contents</b>	<b>Reading Assignments</b>
1 (8/24-8/30)	<ul style="list-style-type: none"> <li>• Understand course objectives, attendance, grading policy and academic honesty</li> <li>• Safety movement and the construction industry</li> <li>• Cost of accidents: why safety is important</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction part of the textbook (PP. 1-9)</li> <li>• Chapter 1</li> </ul>
2 (8/31-9/6)	Labor Day (9/2, Mon.; holiday) <ul style="list-style-type: none"> <li>• Roles of construction personnel in safety and health</li> <li>• Accident causation theories</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 2</li> <li>• Chapter 3</li> </ul>
3 (9/7-9/13)	<ul style="list-style-type: none"> <li>• Accident causation theories</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 3</li> </ul>
4 (9/14-9/20)	<ul style="list-style-type: none"> <li>• Workers' compensation</li> <li>• OSHA compliance</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 5</li> <li>• Chapter 6</li> </ul>
5 (9/21-9/27)	<ul style="list-style-type: none"> <li>• Subparts A through E and related safety practices</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 7</li> </ul>
6 (9/28-10/4)	<ul style="list-style-type: none"> <li>• Subparts F through J and related safety practices</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 8</li> </ul>
7 (10/5-10/11)	<ul style="list-style-type: none"> <li>• <b>Mid-term exam</b></li> </ul>	
8 (10/12-10/18)	<ul style="list-style-type: none"> <li>• Subparts K through O and related safety practices</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 9</li> </ul>
9 (10/19-10/25)	<ul style="list-style-type: none"> <li>• Subparts P through U and related safety practices</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 10</li> </ul>
10 (10/26-11/1)	<ul style="list-style-type: none"> <li>• Subparts V through Z and related safety practices</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 11</li> </ul>
11 (11/2-11/8)	<ul style="list-style-type: none"> <li>• Design for Safety</li> </ul>	Handouts
12 (11/9-11/15)	<ul style="list-style-type: none"> <li>• Hazard Analysis and Construction Equipment Safety</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 13</li> </ul>
13 (11/16-11/22)	<ul style="list-style-type: none"> <li>• Accident investigation, reporting, and record</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 14</li> </ul>
14 (11/23-11/29)	<ul style="list-style-type: none"> <li>• Term project preparation</li> </ul> Thanksgiving Holidays on 11/27 (Thur.; no class) and 11/28 (Friday)	
15 (11/30-12/6)	<ul style="list-style-type: none"> <li>• Term project presentation</li> </ul>	
16 (12/7-12/13) Finals week	<b>Final exam</b> will be held in the time scheduled by the university.	