



## **CONE 421- Construction Safety**

Fall Semester 2015

### **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. Prerequisite: IT 340.

### **PROFESSOR**

**Nilo Tsung** C.Eng., P.E., Ph.D.  
Assistant Professor  
Department of Engineering and Technology  
College of Science and Engineering

### **CONTACT INFORMATION**

**Office:** Room 126H, AG/IT Building

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

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### **CLASS MEETINGS INFORMATION**

**Time:** 3:00 – 4:15 PM Mondays and Wednesdays

**Location:** AG/IT 118A

### **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

## 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 OSHA Construction Industry Regulations* (latest edition). ISBN: 978-1-61946-268-7.

**IMPORTANT NOTICE!!! Grading policies and requirements identified in this syllabus are non-negotiable and will be followed in this course with all students held to an identical standard. If you do not agree with any requirement herein, believe any of them to be “unfair” or “unreasonable,” or believe that less should be expected of you than your classmates to earn a comparable grade, you should IMMEDIATELY DROP this course and re-evaluate your dedication to academic integrity and success!**

## STUDENT CONDUCT/CITIZENSHIP

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See *Code of Student Conduct from Student Guide Handbook*).

Students are expected, at all times, to recognize constituted authority, to conform to the ordinary rules of good conduct, to be truthful, to respect the rights of others, to protect private and public property, and to make the best use of their time and effort toward the educational process.

At no time is a student allowed to exchange dialog with, make requests of, or make implications to a member of faculty that could be construed as a request for, or expectation of, preferential or differential treatment among members of a class. A student may not place an instructor in a position in which there is an expectation by the student that (s)he will be evaluated, assessed, or given consideration in a manner inconsistent with that of the entire class. All students within a class will be held to an identical standard of expectation and assessment, within the law.

## SCHOLARLY EXPECTATIONS

Work submitted is expected to demonstrate higher-order thinking skills and represent the student's best possible effort on the assignment. A student should NEVER ask an instructor what they made on a particular assignment for the purpose of determining how much effort to put into the next assignment. Any effort, on any activity, that is less than the student's best is insufficient and will most likely be reflected in the grade. If a passing grade is desired in this course, it must be demonstrated by virtue of your performance throughout the course.

## ACADEMIC HONESTY POLICY

Texas A&M University-Commerce does not tolerate **plagiarism** and other forms of academic **dishonesty**. Conduct that violates generally accepted standards of academic honesty is defined as

academic dishonesty. "Academic dishonesty" includes, but is not limited to, plagiarism (the appropriation or stealing of the ideas or words of another and passing them off as one's own), auto-plagiarism (duplicate submission of single work for credit in multiple or repeated classes), cheating on exams or other course assignments, collusion (the unauthorized collaboration with others in preparing course assignments), and abuse (destruction, defacing, or removal) of resource material. All works submitted for credit must be original works created **by the scholar** uniquely for the class. Works submitted are subject to submission to TurnItIn, or other similar services, to verify the absence of plagiarism. Consequences of academic dishonesty may range from reduced credit on the plagiarized assignment to petition for removal from the academic program or institution, depending on the circumstances and extent of the violation; however, in typical instances, an automatic F on the assignment is considered appropriate as a minimum consequence.

Also, be aware that the statute of limitations for penalties for plagiarism does not end upon the completion of the course or even upon graduation. If an instance of plagiarism is found anytime after the completion of the course, the course grade is subject to change accordingly and any awarded degree utilizing the course is subject to revocation.

To avoid plagiarism, an individual must give credit whenever they:

- a) use another individual's idea, opinion, or theory;
- b) use facts, statistics, graphs, and drawings that are not common knowledge;
- c) use quotations of another individual's spoken or written words; or
- d) paraphrase another individual's spoken or written words.

Any works referenced should be properly cited in accordance with APA 6<sup>th</sup> edition style.

Web resources for additional reference regarding what constitutes plagiarism and how to avoid it include:

<http://www.plagiarism.org/>

<http://www.unc.edu/depts/wcweb/handouts/plagiarism.html>

<http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml>

## DROPS AND WITHDRAWALS

**Drop** – Removal of the student from one or more courses while remaining actively enrolled in one or more remaining courses in a given semester. A drop must be initiated by the student, with reason, subject to instructor approval, or it may be initiated by the instructor in the case of excessive absences, at the discretion of the instructor. Drop requests **must** be submitted on or before the drop deadline. A student **may not** be dropped from a single course after the drop deadline is passed. Requests to drop a course are submitted via the student's myLEO account.

**Withdraw** – Elective removal of the student from **ALL** courses in which (s)he is enrolled in a given semester. A withdrawal request must be initiated by the student submitting the official [Withdrawal Form](#) to the Office of the Registrar on or before the last day to withdraw. Withdrawals cannot be initiated by instructors and do not require instructor approval.

During the open registration period at the beginning of the semester, students may add or drop courses without specific authorization (prerequisite requirements and permission-only courses excepted). Should the student determine it to be necessary to drop the course, or withdraw from the

semester, it is the student's sole responsibility to submit the proper request **PRIOR** to the official deadlines to complete either of these actions. Drop/Withdrawal requests may **NOT** be submitted through your instructor and informing your instructor of your intent to take either action does not constitute your official request to do so. Instructor approval is required to drop the course after the end of the open-enrollment period and prior to the drop deadline. The student **cannot** be dropped after the drop deadline or withdraw after the withdrawal deadline. (This is university procedure, NOT an instructor decision.) The instructor is **required** to submit the actual grade earned by each student remaining on the official roster after the withdrawal deadline, regardless of the level of grade attainment. The student must contact their academic advisor to determine what effect the drop/withdrawal will have on their academic progress prior to initiating either action.

The student is responsible for confirming official university dates/deadlines and meeting any and all necessary deadlines pertaining to drops & withdrawals. In the event of a discrepancy between a date provided in the course and a date on the [official university calendar](#), the date on the official university calendar, or revised date officially announced by the registrar or other authorized university official, will take precedence.

### **TIME COMMITMENT (16-WEEK TERM)**

In a college-level course, it is a reasonable and accepted expectation that a student will spend between three and four hours outside of class for each hour spent in class. This applies to on-line and web-enhanced courses just as it does to a tradition course when determining the total expectation of time that should be spent on a particular course per week, or day in the case of summer or sub-term courses. The activities in this course are based on a 15-week instruction schedule. An understanding of this expectation can help serve as a gauge for you to determine a range of how much time you will need to allow for and devote to each course. The average time commitment range calculation for a three Semester Credit Hour (3 SCH) course, such as this one, is show in the following table:

Average expected time spent on class or class related work.	Minimum expected average time based on 3:1 time ratio.	Maximum expected average time based on 4:1 time ratio.
"In" class per class week	2hr. 30min.	2hr. 30min.
"Outside" class per class week	7hr. 30min.	10hr. 00min.
<b>TOTAL Weekly Expectation</b>	<b>10hr. 00min.</b>	<b>12hr. 30min.</b>
<b>TOTAL Term Expectation</b>	<b>150hr. 00min.</b>	<b>187hr. 30min.</b>

### **Grade of "X" (Incomplete)**

In accordance with the Academic Procedures stated in the TAMU-C Catalog, "students, who because of circumstances beyond their control, are unable to attend classes during finals week or the preceding three weeks will, upon approval of their instructor, receive a mark of 'X' (incomplete) in all courses in which they were maintaining passing grades." The mark of "X" is rarely applicable and will only be considered in strict compliance with University Policy upon submission of complete medical or other relevant documentation. Discovery of an impending failure of a course, although personally disappointing, DOES NOT constitute an emergency in academia and does not meet the criteria for the assignment of an incomplete.

## **SURVEY/COURSE EVALUATIONS**

Your feedback may be requested by Texas A&M University-Commerce during the semester/term regarding your course. *It is important that you take a serious and constructive approach to this activity.* The information gained from you will assist in course evaluation by the university/college/department to insure that effective learning is taking place within the existing course structure. If changes are indicated, this will help with course re-design and/or other revisions that will make the course more relevant for future students and the employers of graduates.

## **COURSE GRADING**

Attendance and participation: 10%

Quizzes and/or homework: 30%

Midterm exam: 30%

Final exam: 30%

## **GRADING SCALE**

90-100%: A

80-89%: B

70-79%: C

60-69%: D

<60%: F

**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 (8/30-9/5)	<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 (9/6-9/12)	Labor Day (9/7, Mon.; holiday; no class) <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 (9/13-9/19)	<ul style="list-style-type: none"> <li>• Accident causation theories</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 3</li> </ul>
4 (9/20-9/26)	<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 (9/27-10/3)	<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 (10/4-10/10)	<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 (10/11-10/17)	<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>
8 (10/18-10/24)	<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>
9 (10/25-10/31)	<b>Mid-term exam</b> (take home exam)	N/A
10 (11/1-11/7)	<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 (11/8-11/14)	<ul style="list-style-type: none"> <li>• Accident investigation, reporting, and record</li> </ul>	Handouts
12 (11/15-11/21)	<ul style="list-style-type: none"> <li>• Term project preparation</li> </ul>	N/A
13 (11/22-11/28)	<ul style="list-style-type: none"> <li>• Term project preparation(continued)</li> </ul>	N/A
14 (11/29-12/5)	<ul style="list-style-type: none"> <li>• Term project preparation (continued)</li> </ul> Thanksgiving Holidays : 11/25 (Wed.) after 12:00 noon, 11/26 (Thur.), and 11/27 (Friday) no class	N/A
15 (12/6-12/12)	<ul style="list-style-type: none"> <li>• Term project presentation (continued)</li> </ul>	
16 (12/13-12/19) Finals week	<b>Final exam</b> will be held in the time scheduled by the University	