

CNET 3410 – Occupational Safety and Liability (3 Credits)

Section 001 – Spring 2018 Syllabus

Published: January 16, 2018

INSTRUCTOR		Aloysius (Al) Attah, P.E.		EVALUATION	
OFFICE:		Room F115G		Attendance	5%
PHONE:		(940) -565-2022		In-class Exercises	10%
E-MAIL		alloysius.attah@unt.edu		Practice Assignments	20%
				Projects/Presentations	20%
				Group Peer Review	5%
				Midterm Exam	20%
				Final Exam	<u>20%</u>
				Total	<u>100%</u>
<u>Lecture Meeting</u>					
Days/Times: Tue. / Thur.: 8:30 a.m. – 9:50 a.m.					
Room: NTDP D201					
<u>Office Hours</u>				<u>LETTER GRADE</u>	
Mon/Wed: 10:30 a.m. – 11:30 a.m.				A = 90 – 100	
Tue/Thu: 01:00 p.m. – 02:00 p.m.				B = 80 – 89	
OR				C = 70 – 79	
By Appointment				D = 60 – 69	
				F = 0 – 59	

COURSE OBJECTIVES:

At the conclusion of this course, the student should be able to:

- Describe the social, ethical, and economic impact of construction safety
- Discuss standards for safety on construction projects as promulgated by OSHA.
- Specify measures to improve safety and meet standards on a construction project.
- Apply basic technical concepts to the solution of construction problems involving construction safety.
- Develop a safety plan with specific safety measures for a typical construction project.

COURSE POLICY/GRADING:

Attendance/In-class Exercises

- Attendance will be taken at the discretion of the instructor. There will also be random in-class exercises designed to encourage students' presence and participation in class. These exercises may be given any time during a class session. A student who misses any of the exercises for any reason will receive a grade of zero for that exercise. There is no opportunity for a make-up even if a student has an excused absence from the instructor.

Practice Assignments:

- There will be practice assignments as shown in the course outline. The instructor will provide specific details for each assignment. The assignments will be due as shown in the course outline unless otherwise specifically stated by the instructor.
- The practice assignments will be selected at random for grading.
- All assignments shall be typed and legible. They shall contain all work required to reach the solution. These factors will be considered in your grade for the selected assignment.
- Only one late assignment will be accepted during the semester. It may be submitted any time within one week after it is due but it will be graded at 50% penalty. For example, if the raw grade for an assignment is 80%, then with the 50% penalty applied, the final grade will be 40%. Other late assignments will be assigned a grade of zero.

Group Application Projects/Reports/Presentations/Peer Review

- There will be five application projects performed in groups. Every member of a group will receive the same grade for the project. However, the members of each group will peer-review each other for each person's level of participation/contribution in completing the projects. At the request of the instructor, groups will present their reports to the rest of the class on selected dates.
- Report MUST follow **"Technical Writing Guidelines"** posted on Blackboard.

Exams:

- There will be a midterm exam as shown in the course outline.
- A final exam will be given during the final exam period.
- Exams will be cumulative, covering all topics including:
 - All presentations and any topics discussed in class.
 - Any chapters of the text noted in the course outline.
 - Any work carried out to complete exercises, assignments, and the project.
- All exams will be open book and notes. Only printed material will be permitted (**Laptops, cell phones, etc. will not be allowed**).

Extra Credit:

- There is none.

Other Policies:

- This course will adhere to UNT academic policies, including those for academic integrity (<http://vpaa.unt.edu/academic-integrity.htm>) and overall conduct (<http://deanofstudents.unt.edu/conduct>). It is your responsibility as a UNT student to be familiar with these policies, but feel free to ask the instructor any questions pertaining to these.
- Any accommodations for differing abilities will be made for this course as per the policies and determination of the Office of Disability Accommodation: <http://disability.unt.edu/>

COURSE MATERIALS:

- *Construction Safety and Health (2nd Edition)* by David L. Goetsch (Prentice Hall, 2013, ISBN 978-0132374699) – available at the bookstore, online, etc.
- *Supplemental Materials:* Students are strongly encouraged to access the “OSHA Standards for the Construction Industry, 29 CFR Part 1926” from the website: <http://www.osha.gov/>. Students should learn to search this vast website for additional information on construction safety problems.
- Selected articles on construction safety and health.

COURSE OUTLINE: Subject to Change

WEEK-DATE	TOPIC	PRACTICE ASSIGNMENTS /GROUP PROJECTS	MATERIAL
1 – Jan. 16	<ul style="list-style-type: none"> • Introduction / Review of Syllabus • Form Groups • Costs of Accidents: Why Safety is Important. 		Introduction Ch. 1
1 – Jan. 18	Roles of Construction Personnel in Safety & Health.	Assgn. No.1 Due Jan. 30	Ch. 2
2 – Jan. 23	Accident Causation Theories.		Ch. 3
2 – Jan. 25	Ethics and Safety.	Assgn. No. 2 Due Feb. 6	Ch. 4
3 – Jan. 30	Workers' Compensation.		Ch. 5
3 – Feb. 1	OSHA Compliance.	Assgn. No. 3 Due Feb. 13	Ch. 6
4 – Feb. 6			
4 – Feb. 8	OSHA Subparts A through E and Related Safety Practices	Assgn. No. 4 Due Feb. 22	Ch. 7
5 – Feb. 13			
5 – Feb. 15			
6 – Feb. 20	OSHA Subparts F through J and Related Safety Practices.	Assgn. No. 5 Due Mar. 6	Ch. 8
6 – Feb. 22			
7 – Feb. 27			
7 – Mar. 1	<ul style="list-style-type: none"> • OSHA Subparts K through O and Related Safety Practices. • Review for Midterm 	Assgn. No. 6 Due Mar. 8	Ch. 9
8 – Mar. 6			
8 – Mar. 8	MIDTERM EXAM		
<i>Week 9 12-Mar. to 16-Mar.</i>	<i>Spring Break</i>	<i>Spring Break</i>	<i>Spring Break</i>
10 – Mar. 20	OSHA Subparts P through U and Related Safety Practices	Assgn. No. 7 Due Mar. 29	Ch. 10
10 – Mar. 22			
11 – Mar. 27	OSHA Subparts V through Z and Related Safety Practices	Assgn. No. 8 Due Apr. 3	Ch. 11
11 – Mar. 29			
12 – Apr. 3	Construction Safety and Health: Program and Policies		Ch. 12
	Group Projects (GP): Application Activities (AA)		
12 – Apr. 5	<ul style="list-style-type: none"> • Construction Safety and Health: Program and Policies: GP 1 • <i>Survey Questionnaire: Special Individual Assignment</i> 	GP1: AA1 Due Apr. 10 <i>Special Individual Assignment: Due May 1</i>	Ch. 12
13 – Apr. 10	Hazard Analysis & Construction Equip. Safety: GP 2	GP2: AA1 Due Apr. 12	Ch. 13
13 – Apr. 12	Accident Investigation, Reporting, and Record Keeping: GP 3	GP3: AA1 and AA2 Due Apr. 17	Ch. 14
14 – Apr. 17	Emergency Response Plan: GP 4	GP4: AA1 Due Apr. 19	Ch. 15
14 – Apr. 19	Total Safety Management: GP 5	GP 5: AA1 and AA2 Due Apr. 24	Ch. 16
15 – Apr. 24	Preventing Violence in the Workplace	Assgn. No. 9 Due Apr. 26	Ch. 17
15 – Apr. 26	Promoting Safety	Assgn. No. 10 Due May 1	Ch. 21
16 – May 1	Review and Discuss Survey Results	<i>Special Assignment Due</i>	
16 – May 3	Review for Final Exam		
17 – May 8	Final Exam: 8:00 a.m. – 10:00 a.m.		