

CNET 3410 – Occupational Safety and Liability (3 Credits) Section 001 – Spring 2020 Syllabus

INSTRUCTOR Aloysius (Al) Attah, Ph.D., P.E.		EVALUATION	
OFFICE:	Room F115G	Assignments/Pop Quizzes	25%
PHONE:	(940) -565-2022	Group Project/Presentations	25%
E-MAIL	alloysius.attah@unt.edu	Midterm Exam	25%
		Final Exam	<u>25%</u>
		Total	<u>100%</u>
<u>Lecture Meeting</u> Days/Times: Tue. / Thur.: 8:30 a.m. – 9:50 a.m. Room: NTDP K110 <u>Office Hours</u> Mon/Wed: 10:30 a.m. – 11:30 a.m. Tue/Thu: 01:00 p.m. – 02:00 p.m. Other Times: By Appointment		<u>LETTER GRADE</u> A = 90 – 100 B = 80 – 89 C = 70 – 79 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.

STUDENT OUTCOMES SUPPORTED

- #7. Applying appropriate principles of construction management, law, and ethics. (ABET #2: An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.)
- #13. Knowledge of the impact of engineering technology solutions in a societal and global context. (ABET #2: An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.)

COURSE POLICY/GRADING:

Attendance

- Attendance will be taken at the discretion of the instructor.

Assignments/ Pop Quizzes:

- There will be assignments as shown in the course outline. Unless otherwise instructed, all assignments shall be typed double-spaced using **Times New Roman – Font 12**. The assignments will be due as shown in the course outline unless otherwise specifically stated by the instructor.
- The assignments will be selected at random for grading.
- 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.
- There will also be **pop quizzes** designed to encourage students' presence and participation in class. These quizzes may be given any time during a class session. A student who misses any of the quizzes for any reason will receive a grade of zero for that quiz. There is no opportunity for a make-up even if a student has an excused absence from the instructor.
- The grades on the quizzes and assignments make up 25% of a student's final course grade.

Group Project/Presentations

- There will be group projects; the instructor will provide additional information as needed.
- Each group will get opportunity to present assigned portions of the OSHA Subparts/Topics to the rest of the class. Groups will also present their final term projects to the rest of the class on assigned dates. The groups not presenting will grade the presenters' performance per grading rubric provided in this syllabus. The instructor will provide additional information on when each group will present.
- Project reports will be graded based on the **"Technical Writing Guidelines"** posted on Canvas.
- The group projects and presentations make up 25% of a student's final course grade.

Exams:

- There will be a midterm exam as shown in the course outline; it makes up 25% of a student's final course grade.
- A final exam will be given during the final exam period; it makes up 25% of a student's final course grade.
- 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. may not be allowed**).

Extra Credit:

- There is none.

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	ASSIGNMENTS /GROUP PROJECTS	MATERIAL
1 – Jan. 14	<ul style="list-style-type: none"> • Introduction / Review of Syllabus • Assign Groups/Projects • Costs of Accidents: Why Safety is Important. 	Group Project Reports and Power Point Presentations Are Due on April 14	Introduction Ch. 1
1 – Jan. 16	Roles of Construction Personnel in Safety & Health.		Ch. 2
2 – Jan. 21	Accident Causation Theories.		Ch. 3
2 – Jan. 23	Ethics and Safety.		Ch. 4
3 – Jan. 28	Workers' Compensation.		Ch. 5
3 – Jan. 30	OSHA Compliance.	Assgn. No. 3 Due Feb. 11	Ch. 6
4 – Feb. 4			
4 – Feb. 6	OSHA Subparts A through E and Related Safety Practices	Assgn. No. 4 Due Feb. 20	Ch. 7
5 – Feb. 11			
5 – Feb. 13			
6 – Feb. 18	OSHA Subparts F through J and Related Safety Practices.	Assgn. No. 5 Due Mar. 3	Ch. 8
6 – Feb. 20			
7 – Feb. 25			
7 – Feb. 27	OSHA Subparts K through O and Related Safety Practice	Assgn. No. 6 Due Mar. 5	Ch. 9
8 – Mar. 3			
8 – Mar. 5	MIDTERM EXAM		
<i>Week 9</i> <i>09-Mar. to 15-Mar.</i>	<i>Spring Break</i>	<i>Spring Break</i>	<i>Spring Break</i>
10 – Mar. 17	OSHA Subparts P through U and Related Safety Practices	Assgn. No. 7 Due Mar. 26	Ch. 10
10 – Mar. 19			
11 – Mar. 24	OSHA Subparts V through Z and Related Safety Practices	Assgn. No. 8 Due Apr. 2	Ch. 11
11 – Mar. 26			
12 – Mar. 31	Construction Safety and Health: Program and Policies	Assgn. No. 9 Due Apr. 14	Ch. 12
12 – Apr. 2	Hazard Analysis & Construction Equip. Safety		Ch. 13
13 – Apr. 7	Accident Investigation, Reporting, and Record Keeping		Ch. 14
13 – Apr. 9	<ul style="list-style-type: none"> • Emergency Response Plan • Total Safety Management 	Assgn. No. 10 Due Apr. 21	Ch. 15 Ch. 16
14 – Apr. 14	<ul style="list-style-type: none"> • Total Safety Management • Promoting Safety 		Ch. 16 Ch. 21
14 – Apr. 16	Group Project Presentations		
15 – Apr. 21	Group Project Presentations		
15 – Apr. 23	Group Project Presentations		
16 – Apr. 28	Group Project Presentations		
16 – Apr. 30	Group Project Presentations		
17 – May 5	Final Exam: 8:00 a.m. – 10:00 a.m. Tuesday		

OTHER POLICIES

Academic Integrity: <https://deanofstudents.unt.edu/academic-integrity>

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.

ADA Policy

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time, however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Office of Disability Accommodation website at <http://disability.unt.edu/>. You may also contact them by phone at [940.565.4323](tel:940.565.4323).

Important Notice for F-1 Students taking Distance Education Courses

Federal Regulation

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the Electronic Code of Federal Regulations website at <http://www.ecfr.gov/>. The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

University of North Texas Compliance

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

- (1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
- (2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email internationaladvising@unt.edu) to get clarification before the one-week deadline.

PRESENTATION GRADING GUIDE

PRESENTER NAME _____ COURSE NAME _____

SEMESTER _____ PROJECT TITLE _____

EVALUATION TOPIC	POSSIBLE POINTS	COMMENTS
1. Subject Introduction	0 1 2	_____
2. Organization of Topics	0 1 2 3	_____
3. Clear Descriptions	0 1 2 3	_____
4. Emphasized Pertinent Information	0 1 2	_____
5. Quality and Effective Use of Visual Aids	0 1 2 3	_____
6. Effective Conclusion	0 1 2 3	_____
7. Composure and Speaking	0 1 2 3 4 5 6 7 8 9 10	_____
8. Effective Demonstration with a working model	0 1 2 3 4 5 6 7 8 9 10	_____
9. Project Technical Content	0 1 2 3 4 5 6 7 8 9 10	_____
10. Subjective Evaluation	0 1 2 3 4	_____
Composite Score		_____

EVALUATOR'S COMMENTS _____

WRITTEN GRADING GUIDE

NAME _____ COURSE NAME _____

REPORT DATE _____ DUE DATE _____

PROJECT TITLE _____

EVALUATION TOPIC	POSSIBLE POINTS	COMMENTS
1. Objective	10	_____
2. Diagrams	10	_____
3. Expected Results	10	_____
4. Original Data Sheets	20	_____
5. Analysis of Results	10	_____
6. Conclusions	10	_____
7. Supportive Data	10	_____
8. Comments	10	_____
9. Professionalism signature	10	_____

Composite Score _____

EVALUATOR'S COMMENTS

Evaluator: _____

Date completed: _____