



CONSTRUCTION ★ ENERGY ★ MANAGEMENT

CNET 4900 – Special Problems

Occupational Safety and Liability

3 Credit Hours

Spring 2026 Syllabus (Subject to Change)

Instructor Contact

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Office Hours:

Monday: 4:00 p.m. – 5:00 p.m.

Tuesday: 1:00 p.m. – 2:30 p.m.

Thursday: 1:00 p.m. – 1:30 p.m.

Other Times: By appointment

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:

Assignments:

- There will be assignments as shown in the course outline.
- Each assignment is due one week after it is assigned.
- Any late assignment will receive a grade of zero.
- All assignments shall be typed and legible and shall contain all work required to reach the solution.

Application Project

- There will be application project as shown in the course outline.
- Application project report MUST follow the “**Technical Writing Guidelines**” provided to the student.

Exams:

- There will be a midterm exam as shown in the course outline.
- A final exam will cover materials after the midterm exam.

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	TOPIC	ASSIGNMENTS / PROJECT	MATERIAL
1	Costs of Accidents: Why Safety is Important.	Assgn. No.1	Ch. 1
	Roles of Construction Personnel in Safety & Health.		Ch. 2
2	Accident Causation Theories.		Ch. 3
	Ethics and Safety.		Ch. 4
3	Workers' Compensation.		Ch. 5
	OSHA Compliance.	Assgn. No. 3	Ch. 6
4	OSHA Subparts A through E and Related Safety Practices	Assgn. No. 4	Ch. 7
5	OSHA Subparts F through J and Related Safety Practices.	Assgn. No. 5	Ch. 8
6	OSHA Subparts K through O and Related Safety Practices.	Assgn. No. 6	Ch. 9
7	OSHA Subparts P through U and Related Safety Practices	Assgn. No. 7	Ch. 10
8	Mid Term Exam		
9	Spring Break		
10	OSHA Subparts V through Z and Related Safety Practices	Assgn. No. 8	Ch. 11
11	Construction Safety and Health: Program and Policies:	Begin Application Project	Ch. 12

12	Hazard Analysis & Construction Equip. Safety:	Application Project Continues	Ch. 13
13	Accident Investigation, Reporting, and Record Keeping:	Application Project Continues	Ch. 14
14	Emergency Response Plan:	Application Project Continues	Ch. 15
	Total Safety Management:	Application Project Continues	Ch. 16
15	Preventing Violence in the Workplace	Application Project Continues	Ch. 17
16	Promoting Safety	Application Project Due	Ch. 21
17	Final Exam		

Graded Activities

Assignments	120 points
Application Project	130 points
Midterm Exam	125 points
Final Exam	<u>125 points</u>
Total	<u>500points</u>