**COLLEGE OF DESIGN, CONSTRUCTION AND PLANNING UNIVERSITY OF FLORIDA**

**COURSE TITLE:** Construction Safety, Health, and the Environment

**COURSE NUMBER:** BCN 3730

**TERM:** Spring 2025

**NUMBER OF CREDIT HOURS**: 3

**PRE-REQUISITES:** Open to 3rd year Construction Management students only.

**CLASS LOCATION:** Based on your section

**INSTRUCTIONAL METHODS:** One hour lecture, three times a week.

**CLASS MEETING TIMES:** Based on your section

**INSTRUCTOR:** Dr. Andrew Wehle, 312 RNK, wehleaj@ufl.edu, (352) 294-0527

**OFFICE HOURS:**

|  |  |  |
| --- | --- | --- |
| Monday, Wednesday, and Thursday | 5th Period | 11:30am-12:30pm |

**COURSE DESCRIPTION:**

This course provides an overview of construction safety issues, concerns, requirements and procedures. The analysis includes costs, planning, administration, inspection, prevention, incident control and drug-free workplace. Understanding of the major health issues encountered on construction sites. Appreciation for the need to be environmentally responsible.

**COURSE OBJECTIVES:**

1. Provide an understanding of the US regulatory requirements regarding construction safety
2. analyze unsafe construction activities and recognize how management practices can favorably impact safety performance
3. understand how construction practices impact the environment
4. Students will create a site-specific safety plan

OSHA Certification

Successful completion of the criteria stated will result in students earning 30-hour OSHA cards. Stated criteria includes not only target grades above for both quizzes/exams and the safety project, but also attendance record. Students who have more than three maximum allowed hours from class will **NOT** receive an OSHA card, in compliance with federal regulations. Please note OSHA counts hours not days so if you miss a double period, you have missed two class contact hours

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| **SACS SLO** | **ACCE SLO** | **Course Learning Outcome (CLO)** | **Assignments** | **Percent students passing with a min. of 70%** |
| 1 |   | Apply their knowledge of the OSHA regulations pertaining to construction safety and health | Average of Test 1, Test 2, Test 3, and Quizzes | 80% |
| 2 |   | Assess the level of performance of a firm in the area of safety and health | Average of Test 1 and Test 2 | 80% |
| 3 |   | Recognize effective management practices that favorably impact safety performance | Site Safety Plan Grade - Part 3 | 80% |
| 4 |   | Prepare a site-specific safety program | Site Safety Plan Grade - Part 2 | 80% |
| 5 |   | Understand and appreciate the need to be environmentally responsible | Test 3 Grade | 80% |
|   | 3 | Create a construction project safety plan. | SLO 1, 2, 3, 4 | 80% |
|   | 6 | Analyze professional decisions based on ethical principles. | SLO 5 | 80% |
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| *ACCE = American Council for Construction Education* |  |  |
| *SLO= Student Learning Outcome* |  |  |

 **CLASS ATTENDANCE AND MAKEUP POLICY:**

Attendance is strongly encouraged. Extra credit points are occasionally awarded for attendance and participation in the lecture. Late quizzes, in-class assignments and essays will be accepted with 50% reduction of potential points, no later than the start of the next scheduled class. Make-up tests must occur within three days of the original exam date. Only one make-up exam is allowed per semester. Requirements for attendance, make-up exams, assignments and other work in this course are consistent with UF policies found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

**Deadlines**

All projects must be turned in on the due date specified in class. Late projects lose one full letter grade for each day beyond the original due date.

**ACCOMMODATING STUDENTS WITH DISABILITIES:**

Students requesting accommodation for disabilities must first register with the Dean of Students Office (<https://disability.ufl.edu/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodation is not retroactive; therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

**REQUIRED TEXTBOOK: No Book Required**

**Students Requiring Accommodations:** Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/)](http://www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

**University Honesty Policy:**

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions ([https://www.dso.ufl.edu/sccr/process/student-conducthttps://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/honor-code/)](https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/). Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

**Counseling and Wellness Center**
Contact information for the Counseling and Wellness Center is available on the web at <http://www.counseling.ufl.edu/cwc/Default.aspx> or by phone at (352) 392-1575; and the University Police Department: (352) 392-1111 or 9-1-1 for emergencies.

**GRADING POLICY:**

UF policy on grading may be found at the following link: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

**COURSE EVALUATIONS:**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/> .

**MATERIALS AND SUPPLIES FEE**: OSHA charges ***$10*** upon successful completion of the certification requirements.

**CLASS DEMEANOR/EXPECTATIONS:**

Students should be respectful to faculty and other students throughout the classroom experience. Cellphones should not be visible during the class period. Laptops/Ipads should only be open if actively being used for note taking. The use of such devices are at the discretion of the faculty.

**Cell phone use is not allowed during class time.** Set your cell phones to vibrate or silent while in the classroom. Use of cell phones during an exam will result in failing the exam.

**No work will be accepted via e-mail submission.** All assignments should be uploaded to the appropriate drop box on the course’s e-Learning website. *Please try to communicate with me during office hours and before or after class periods.* You are important to me as a student—I am simply overwhelmed with electronic communication and will respond to e-mails as soon as I can.

**IN-CLASS RECORDINGS:**

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. Th only allowable purposes are (1) for personal education use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and deliver by an instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentation such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or guest lecturer during a class session. Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless, of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

**AI Use Policy**

**Purpose:**
This course encourages the exploration and integration of emerging technologies, including artificial intelligence (AI), to enhance learning and professional development. The use of AI tools, such as ChatGPT, Grammarly, and other generative technologies, can be valuable resources for drafting, brainstorming, and refining ideas.

**Guidelines:**

1. **Transparency:**
If you use AI tools in your work, you must clearly indicate how and where you have utilized them. For example, you might add a note at the end of an assignment that states, "This document was reviewed using Grammarly" or "ChatGPT was used to generate initial ideas for this assignment."
2. **Originality:**
While AI tools can assist in the creative process, all submissions must be your own original work. AI should not replace your critical thinking, problem-solving, or the creative process. Plagiarism, including submitting AI-generated content as your own, will not be tolerated.
3. **Attribution:**
If AI tools are used to generate specific content (e.g., text, code, design), proper attribution must be provided. This could be as simple as a footnote or a brief mention in your submission. Failure to provide attribution may be considered a breach of academic integrity.
4. **Academic Integrity:**
Misuse of AI tools to complete assignments in a way that violates the course's learning objectives or academic honesty policies will be treated as academic misconduct. This includes using AI to generate entire assignments, plagiarize others' work, or bypass critical learning tasks.
5. **Ethical Considerations:**
Students are encouraged to critically evaluate the ethical implications of AI use, including bias, fairness, and the potential for misuse. Discussions around AI ethics will be integrated into course content to foster responsible and informed use.

**Support:**
If you're unsure about how to appropriately use AI tools for a specific assignment, please consult with the instructor. I am here to help you navigate the ethical and effective use of AI in your academic work.

**CAMPUS RESOURCES:**

Health and Wellness

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit [U Matter, We Care website](https://umatter.ufl.edu/) to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: [Visit the Counseling and Wellness Center website](https://counseling.ufl.edu/) or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or [visit the Student Health Care Center website](https://shcc.ufl.edu/).

University Police Department: [Visit UF Police Department website](https://police.ufl.edu/) or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; [Visit the UF Health Emergency Room and Trauma Center website](https://ufhealth.org/emergency-room-trauma-center) .

GatorWell Health Promotion Services: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the [GatorWell website](https://gatorwell.ufsa.ufl.edu/) or call 352-273- 4450.

Academic Resources:

E-learning technical support: Contact the [UF Computing Help Desk](http://helpdesk.ufl.edu/) at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

[Career Connections Center](https://career.ufl.edu/): Reitz Union Suite 1300, 352-392- 1601. Career assistance and counseling services.

[Library Support](https://cms.uflib.ufl.edu/ask): Various ways to receive assistance with respect to using the libraries or finding resources. Call 866-281-6309 or email ask@ufl.libanswers.com for more information.

[Teaching Center](https://umatter.ufl.edu/office/teaching-center/): 1317 Turlington Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

[Writing Studio](https://writing.ufl.edu/writing-studio/): Daytime (9:30am-3:30pm): 2215 Turlington Hall, 352-846-1138 | Evening (5:00pm-7:00pm): 1545 W University Avenue (Library West, Rm. 339). Help brainstorming, formatting, and writing papers.

Academic Complaints: Office of the Ombuds; [Visit the Complaint Portal webpage for more information](https://www.ombuds.ufl.edu/complaint-portal/).

Enrollment Management Complaints (Registrar, Financial Aid, Admissions): [View the Student Complaint Procedure webpage for more information.](https://em.ufl.edu/complaint)

**COURSE GRADING:**

Quizzes 30% of total grade

Three Exams 60% percent of total grade

One Site-Safety Project 10% of total grade

Total 100%

Safety project grades will be based on, but not limited to, the following criteria. 5% of total points will be taken from the final grade for each missing or inaccurate component:

1. Did you follow guidelines provided in class re: minimum length of paper, including fonts and spacing?
2. Did you include all required information/sections as outlined in class?
3. Is the information you included in each section relevant to that section, as discussed in class?
4. Did you provide proper citations/sources for both written sections and graphics/pictures used?
5. Is your writing clear, concise, professional, not redundant, and grammatically correct including spelling?
6. See Course Assignment in Canvas for project details.

**GRADING SCALE:**

For information on how UF assigns grade points, visit: <https://catalog.ufl.edu/UGRD/academicregulations/grades-grading-policies/>

A 94 – 100% C 74 – 76% A- 90 – 93% C- 70 – 73% B+ 87 – 89% D+ 67 – 69% B 84 – 86% D 64 – 66% B- 80 – 83% D- 60 – 63% C+ 77 – 79% E <60

**Course Content / Schedule:**

A detailed course schedule, with a week-by-week topic list and due dates for readings, quizzes and assignments, is provided on CANVAS. **SUBJECT TO CHANGE DUE TO UNFORESEEN CONFLICTS AND PROGRESSION OF TOPICS**

|  |  |
| --- | --- |
| **Topic** | **Date** |
| Intro to OSHA | 1/13/2025 |
| Intro to OSHA | 1/15/2025 |
| Focus 4/Falls | 1/16/2025 |
| Focus 4/Falls | 1/22/2025 |
| Stair/Ladders | 1/23/2025 |
| Stair/Ladders | 1/27/2025 |
| Focus 4/Electrocution | 1/29/2025 |
| Focus 4/Electrocution | 1/30/2025 |
| Focus 4/Struck By | 2/3/2025 |
| Focus 4/Caught In Between | 2/5/2025 |
| Managing Safety/Health | 2/6/2025 |
| Managing Safety/Health | 2/10/2025 |
| Elective - Foundations of Safety Leadership | 2/12/2025 |
| Elective - Foundations of Safety Leadership | 2/13/2025 |
| PPE | 2/17/2025 |
| PPE | 2/19/2025 |
| PPE | 2/20/2025 |
| Elective - Foundations of Safety Leadership | 2/24/2025 |
| Elective - Fire Protection and Prevention | 2/26/2025 |
| Elective - Excavations | 2/27/2025 |
| Elective - Excavations | 3/3/2025 |
| Health Hazards in Construction- Hazard Communication | 3/5/2025 |
| Health Hazards in Construction- Hazard Communication | 3/6/2025 |
| Elective - Concrete/Masonry | 3/10/2025 |
| Elective - Concrete/Masonry | 3/12/2025 |
| Elective - Cranes | 3/13/2025 |
| Elective - Cranes | 3/24/2025 |
| Elective -Motor Vehicles | 3/26/2025 |
| Elective - Tools (Power & Hand) | 3/27/2025 |
| Elective - Welding/Cutting | 3/31/2025 |
| Elective - Scaffolding | 4/2/2025 |
| Elective - Scaffolding | 4/3/2025 |
| Elective - Steel Erection | 4/7/2025 |
| Elective - Steel Erection | 4/9/2025 |
| Elective - Confined Space | 4/10/2025 |
| Elective - Confined Space | 4/14/2025 |
| Elective - Safety and Health Program | 4/16/2025 |
| Health Hazards - Asbestos | 4/17/2025 |
| Health Hazards - Asbestos | 4/17/2024 |
| Health Hazards - Lead | 4/18/2024 |
| Health Hazards - Silica | 4/21/2025 |
| Health Hazards - Silica | 4/23/2025 |