

M. E. RINKER, SR.
SCHOOL OF BUILDING CONSTRUCTION
UNIVERSITY OF FLORIDA

Course Outline

BCN 3730 – Construction, Safety, Health and the Environment (3 credits)

INSTRUCTOR: Russell Walters, P.E., Ph.D. Email: rwalters@ufl.edu
Room: Rinker 340 Tel: 273-1173
Web Page: lss.at.ufl.edu
Office Hours: MW 9:30 PM – 10:30 PM

PREREQUISITE: None

DESCRIPTION: Construction safety issues, concerns, requirements and procedures. The analysis includes costs, planning, administration, inspection, prevention, loss control and drug-free workplace. Understanding of the major health issues encountered on construction sites. Appreciation for the need to be environmentally responsible.

METHOD: Three lecture hours per week.

OBJECTIVES: To teach the students to understand the regulatory requirements in construction safety, to analyze unsafe construction activities and recognize how management practices can favorably impact safety performance, and understand how construction practices impact the environment. Students will create a site specific safety plan.

STUDENT LEARNING OUTCOMES:

Upon completion of the course students will demonstrate their ability to:

- ❶ Apply their knowledge of the OSHA regulations pertaining to construction safety and health (ACCE SLO 3)
- ❷ Assess the level of performance of a firm in the area of safety and health (ACCE SLO 3)
- ❸ Recognize effective management practices that favorably impact safety performance (ACCE SLO 3)
- ❹ Prepare a site specific safety program (ACCE SLO 3)
- ❺ Understand and appreciate the need to be environmentally responsible (ACCE SLO 6)

Successful completion of stated criteria will result in students earning the 30-hour OSHA cards.

REQUIRED MATERIALS:

1. Hinze, J.W. (2006). Construction Safety, 2nd ed. Alta Systems, Gainesville, FL (978-0-9790854-0-6)
2. US Government Printing Office (2012). Code of Federal Regulation Title 29 Part 1926, Revised July1, 2012. (978-0-1609115-7-6)

GRADING SYSTEM:

- (3) Major Exams: 20 pts each
- (1) Safety Project: 10 pts
- (12) Closed Book Quizzes 5 pts each

Grades will be computed according to the following scale: A=93-100; A- =90-92.9; B+ =87-89.9; B=83-86.9; B- =80-82.9; C+ = 77-79.9; C=73-76.9; C- =70-72.9; D+ =67-69.9; D=63-66.9; D- =60-62.9; E<60.

ASSESSMENT METHODS

Assessment	SLO 3	SLO 6	SLO 3
Exams	X		
Exams		X	
Safety Project			X

Assessment	Target
Exams	At least 80% receive a C- or better
Safety Project	At least 80% receive a B- or better

POLICIES:

Lectures will be presented on various topics related to construction safety and health. Students are expected to take notes during the lectures. Students are responsible for all materials discussed or presented in class. Since 30-hour OSHA cards are earned for successful completion of this class, attendance is a strict requirement. OSHA 30-hour cards will be provided to students who successfully complete the safety class, have at least an average grade of 70% on the major examinations and the OSHA quizzes, and who meet the attendance criteria. The administrators at OSHA have made it clear that OSHA cards are not to be based solely on passing exams. OSHA insists that attendance criteria are satisfied. Students that miss five or more classes will not be issued an OSHA card.

STUDENT INTEGRITY

Be aware of the Honor System of the University of Florida. All students in this course are subject to the requirements of the University of Florida’s Honor Code. Although joint work on assignments may be acceptable in some cases, duplication of an individual assignment, either manually or by computer, will be considered an act of academic dishonesty and dealt with accordingly. Academic dishonesty includes copying from others on quizzes, tests, examinations, and other behaviors in which a student falsely claims work that was actually done by others. Assisting others in acts of academic dishonesty is also covered under this honor code. Any student found guilty of academic dishonesty is subject to a failing grade in the class and other disciplinary actions.

CORRESPONDENCE:

When corresponding via telephone, please leave a clear message. These messages will be reviewed on a regular basis. When corresponding via email, always use “safety” as the first word in the subject line on email messages,

e.g., “Safety – Question on homework” to submit a question.