

# PUBH 3310, Occupational Health and Safety

## Fall 2016

### Time and Place

- MWF 11:30 – 12:20, Biology and Natural Resources 278
- Virtual attendance from Brigham City will also be tried this semester

### Instructors

- Carl Farley, [carl.farley@usu.edu](mailto:carl.farley@usu.edu), BNR 323, 797-2566 (office hours Tue. 9:00-11:00, 1:00-3:00)
- Occasional guest instructors as scheduled.

### Introduction

- PUBH 3310, Occupational Health and Safety, is required for Public Health Students having an emphasis in industrial hygiene or environmental health, and an elective for Civil and Environmental Engineering students. However, most any working person should benefit from a basic knowledge of workplace health and safety.
- Classroom discussions will emphasize current events related to workplace health and safety

### Objectives

This course is intended to provide an overview of the safety and industrial hygiene professions, with more detail on relevant topics. After completing this course, students should:

- Understand the historic context of occupational safety and health and the circumstances that prompted legislation.
- Know essentials of the Occupational Safety and Health Administration, OSHA, and the Mine Safety and Health Administration, MSHA, their mission and their approach.
- Be able to recognize workplace safety and health hazards, including chemical, biological, and physical agents and conditions that could lead to accidents and injuries.
- Know the basics of hazard control, including the factors that determine risk and how to set priorities.
- Appreciate the role of professionals and professionalism in occupational safety and health.
- Recognize occupational safety and health issues in current events

### Text

- *THERE IS NO COURSE TEXTBOOK*, since the instructor has not been able to find a textbook that covers the breadth of topics addressed in this course. Students will use lecture notes, handouts and links to information on the web.
- *Lecture notes* and course handouts will be available on Canvas.

## Grading

- Course grade will be based on exam scores and daily quizzes (550 points possible).
- Most of exam content will be based on presentations. Other questions may be based on classroom discussions, relevant current events, and reference materials.
- Minimum letter grades will be assigned in accord with the USU grading scale:

Exam	Points
Midterm Exam 1	100
Midterm Exam 2	100
Midterm Exam 3	100
Quizzes	50
Comprehensive Final Exam	200

Score	93	90	87	83	80	77	73	70
Minimum grade	A	A-	B+	B	B-	C+	C	C-

- Up to 30 points extra credit is available to students who make the extra effort to become involved with occupational safety and health professional organizations. All extra credit must be approved in advance and documented. Follow instructions (attached) to apply.

Professional activity	Extra credit
Participate as a volunteer or attendee at the Oct. 11-12 Utah Conference on Safety and Industrial Hygiene and submit a brief report of your activity.	20 points
Join (national) AIHA, ACGIH or ASSE as a student member	5 points
Join and participate in USU Industrial Hygiene Student Association	5 points
Other professional activity (approved in advance)	Negotiated

## ADA accommodations

Students with physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, 797-2444 voice, 797-0740 TTY, or toll free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) are available with advance notice.

## IDEA Course Evaluation System

The IDEA Center Student Ratings of Instruction is used for course evaluations at USU. During Fall Semester, faculty members will identify course objectives that are compatible with the IDEA system. Students will submit course evaluations online during the last three weeks of the course.

## Course Schedule Fall 2016

Date	Day	Topic	Instructor
8/28	Mon	Course Introduction, Video on History of OHS	Farley
8/30	Wed	History of Occupational Safety and Health	Farley
9/1	Wed	The Occupational Safety and Health Act	Farley
9/4	Mon	Labor Day (no class)	
9/6	Wed	OSHA, the Agency, Regulations, and Inspections, Health & Safety Management Plans	TBA
9/8	Fri	Mine Safety and Health, History and Legislation	Farley
9/11	Mon	OSHA Recordkeeping	Farley
9/13	Wed	OSH Professions	Farley
9/15	Fri	Workers Compensation	Farley
9/18	Mon	Occupational Health Hazards	Farley
9/20	Wed	Occupational Infectious Diseases	Farley
9/22	Fri	<b>FIRST MIDTERM EXAM</b>	Farley
9/25	Mon	Principles of Toxicology	Farley
9/27	Wed	Workplace Exposure Limits	Farley
9/29	Fri	Introduction to Epidemiology	Bernhardt
10/2	Mon	Hazard Communication and the SDS	Farley
10/4	Wed	Evaluating Chemical Hazards	Farley
10/6	Fri	Chemical Hazard, Source Controls (non vent.)	Farley
10/9	Mon	Chemical Hazard, Ventilation Source Controls	Farley
10/11	Wed	No Classes (Utah Annual Conf. on Safety & Industrial Hygiene)	Farley
10/13	Fri	Personal Protective Equipment (PPE)	Farley
10/16	Mon	Physical Health Hazards (Noise)	Farley
10/18	Wed	Physical Health Hazards (radiation & other)	Farley
10/20	Fri	No Classes (Fall Break)	Farley
10/23	Mon	<b>SECOND MIDTERM EXAM</b>	Farley
10/25	Wed	Job Stress, Shiftwork	Farley
10/27	Fri	Confined Space Entry	Farley
10/30	Mon	Risk Assessment, JHA, Behavior & Accident Causation	Farley
11/1	Wed	Ergonomics Hazards and Repetitive Motion Diseases	Farley
11/3	Fri	Ergonomics- continued	Farley
11/6	Mon	Fire Safety and Protection	Farley
11/8	Wed	Material Handling and Storage, Forklifts	Farley
11/10	Fri	<b>THIRD MIDTERM EXAM</b>	Farley

Date	Day	Topic	Instructor
11/13	Mon	Construction Safety. Excavations. Scaffolds	Farley
11/15	Wed	Construction- continued	Farley
11/17	Fri	Walking/Working Surfaces and Fall Protection	Farley
11/20	Mon	Cranes and Hoists	Farley
11/22-11/24	Wed-Fri	No Classes- Thanksgiving Break	Farley
11/27	Mon	Machine Safeguarding, Lock-out / Tag-out	Farley
11/29	Wed	Electrical Hazards	Farley
12/1	Fri	Accident Investigation and Cost Analysis	Farley
		Workplace Violence	
12/4	Mon	Electrical Hazards	Farley
12/6	Wed	Teenage Workers	Farley
12/8	Fri	Catch-up day or Review	Farley
12/11	Fri	Final Exam 11:30-1:20	