

Instructor: Carl Farley, carl.farley@usu.edu, 435-797-2566
Office Hours: Tuesday and Thursday, 8:30 - 9:20
Classroom: BNR 278
Time: MWF 9:30 - 10:20

Introduction:

This course is intended to provide practical information for the practice of the “safety” profession, specifically including education in basic Environmental Engineering topics, Safety topics, and Ergonomics. Students will learn through lectures and by demonstration, and applicable videotapes may also be shown. Professional development, including requirements for certification as an Associated Safety Professional will also be emphasized. Topics are arranged to correspond to the course text.

There is no prerequisite, but students are encouraged to take PUBH 3310, Occupational Health and Safety, PUBH 4310, IH Hazard Recognition and PUBH 5340, IH and Safety Programs. These courses introduce many of the topics addressed in PUBH 4410 and they also provide information and guidance about industrial hygiene, OSHA, worker’s compensation, written safety and health programs, accident investigation, and other related topics not covered in this course.

Objectives:

After this course, students should be able to:

- Understand the role of safety design and the safety professional
- Recognize a broad range of industrial safety hazards
- Know how to prevent accident or injury by controlling these hazards,
- Be familiar with OSHA, ANSI, NFPA, and other applicable safety standards
- Know where and how to get additional safety information
- Be familiar with BCSP requirements for ASP certification

Textbook:

There is no textbook required, all materials will be provided

Grading:

Item	Points
Exam 1	100
Exam 2	100
Exam 3	100
DOT Module	100
RCRA Module	100
Quizzes (weekly, daily, or "take home")	55
Course Total	555
(Optional, for extra credit) Project, Professional activity, etc.	20

Score	93%	90%	87%	83%	80%	77%	73%	70%	67%	60%
Minimum grade	A	A-	B+	B	B-	C+	C	C-	D+	D

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.

Course Schedule:

Date and Day	Topic
1/8/18	Mon Introduction, course overview, Professionalism, CSP Exam
1/10/18	Wed Safety Standards
1/12/18	Fri Safety Through Design
1/15/18	Mon <i>Martin Luther King day</i>
1/17/18	Wed Facility layout, lighting, color, & maintenance
1/19/18	Fri Egress/Life Safety
1/22/18	Mon Ladders, Scaffolds
1/24/18	Wed Fall Arrest Systems
1/26/18	Fri Construction Management / Excavations
1/29/18	Mon Catch-up & review day (Pressure vessels, boilers, and compressed gas)
1/31/18	Wed Exam 1
2/2/18	Fri Electrical safety, injuries, equipment
2/5/18	Mon Electrical grounding, hazardous locations, inspections
2/7/18	Wed Safeguarding / Hazardous energy sources (Lockout/Tagout)
2/9/18	Fri PPE program
2/12/18	Mon PPE- head, eye, & face protection
2/14/18	Wed Protective clothing & footwear
2/16/18	Fri Respiratory Protection
2/19/18	Mon <i>Presidents' Day</i>
2/20/18	Tue <i>Monday Class Schedule- Flammable and combustible liquids</i>
2/21/18	Wed Fire protection, classification, hazards
2/23/18	Fri Fire extinguishers, protective systems
2/26/18	Mon Catch-up & review day (Pressure vessels, boilers, and compressed gas)
2/28/18	Wed Exam 2
3/2/18	Fri Audits & inspections
3/5/18	Mon Spring Break
3/7/18	Wed Spring Break
3/9/18	Fri Spring Break
3/12/18	Mon Ergonomics
3/14/18	Wed Ergonomics
3/16/18	Fri Ergonomics
3/19/18	Mon Manual Material Handling and Storage Racks
3/21/18	Wed Powered Industrial Trucks
3/23/18	Fri Powered Industrial Trucks
3/26/18	Mon Cranes & hoists
3/28/18	Wed Crane rigging & slings
3/30/18	Fri Exam 3
4/2/18	Mon DOT Hazardous Materials Transportation
4/4/18	Wed DOT Hazardous Materials Transportation
4/6/18	Fri DOT Hazardous Materials Transportation
4/9/18	Mon DOT Hazardous Materials Transportation
4/11/18	Wed DOT Hazardous Materials Transportation
4/13/18	Fri RCRA Hazardous Waste
4/16/18	Mon RCRA Hazardous Waste
4/18/18	Wed RCRA Hazardous Waste
4/20/18	Fri RCRA Hazardous Waste
4/23/18	Mon RCRA Hazardous Waste
4/25/18	Wed Process Safety Management / Risk Management Planning
4/27/18	Fri Process Safety Management / Risk Management Planning
	Final Exam (if necessary) TBD