Mel and Enid Zuckerman College of Public Health  
University of Arizona  

SYLLABUS  
Safety Fundamentals    CPH 422/522  
SPRING 2013  

Time:  Wednesday;  1 to 4 pm;  this will be partially offered on-line;  please consult D2L notes week to week to confirm schedule  

Location: Room A120  Drachman    Instructor: Dr. Terry Stobbe, CSP, CIH, CPE  
email:  tjs9@email.arizona.edu    phone:  520-626-4912  

Office Hours: Immediately before and after class on in-classroom days; otherwise by appointment  

Course Description: Fundamentals of occupational safety, emphasizing regulatory requirements and best-practices targeted to eliminate major sources of occupational injuries. Hazard identification, behavioral safety, and incident investigation will be discussed. In addition, the basic concepts of workplace ergonomics will be presented.  

Course Prerequisites: An open mind, and an ability to think logically  

Course Learning Objectives: Students will learn the basic concepts of industrial safety and ergonomics, how accidents and injuries/diseases affect workers, their family, and their workplace, where to look for technical information about these subjects, and how to evaluate a workplace from the perspective of a safety/ergonomics professional. The importance of perception in safety decision making will be explored. This will include learning the classic OHS approach of anticipation, recognition, evaluation and control of workplace hazards. Students will learn about how to address the ethical issues involved in workplace safety and in the balancing of safety and health with cost in the workplace.  

Course Competencies Covered  

Competencies  
A. ANALYTICAL SKILLS:  
A. 1. Defines a problem  
A. 2. Determines appropriate uses and limitations of data  
A. 4. Evaluates the integrity and comparability of data and identifies gaps in data sources  
A. 5. Understands how the data illuminates ethical, political, scientific, economic, and overall occupational safety and health issues  
A.5.* Understands the qualitative and quantitative aspects of the creation of workplace OHS hazards.
A.5.** Understands the physiological, psychological, and toxicological contributions to workplace stressors on the human body.

A.5.*** Can identify basic engineering and administrative controls appropriate to the reduction/elimination of workplace hazards and stressors.

A.7. Makes relevant inferences from data

B. COMMUNICATION SKILLS:
B.1. Communicates effectively both in writing and orally (unless a handicap precludes one of those forms of communication)
B.3. Soliciting input from individuals and organizations
B.5. Leading and participating in groups to address specific issues, including ability to work in teams, span organizational boundaries, and cross systems
B.7. Demonstrating cultural competency in all of the above.

C. POLICY DEVELOPMENT/PROGRAM PLANNING SKILLS:
C.6. Identifying public health laws, regulations, and policies related to specific programs

D. CULTURAL SKILLS:
D.2. Interacting competently, respectively, and professionally with persons from diverse backgrounds
D.3. Identifying and examining the role of cultural, social, ethnic, religious, spiritual, and behavioral factors in determining injury prevention
D.4. Developing and adapting approaches to occupational health and safety problems that take into account cultural differences
D.5. Determining health related consequences of social structure

E. BASIC PUBLIC HEALTH SCIENCE SKILLS:
E.3. Applying the behavioral and social sciences, biostatistics, epidemiology, and industrial & environmental health to the prevention of chronic diseases and injuries
E.4. Understanding of the historical development and structure of state, local, and federal regulatory agencies concerned with occupational health and safety

F. FINANCIAL PLANNING AND MANAGEMENT SKILLS:
F.3. Developing strategies for determining priorities
F.4. Monitoring program

Course Notes: Some notes will be handed out in class and some will be available thru D2L

Texts/Readings: The text is “Safety and Health for Engineers” Brauer, 2nd edition; Wiley - other readings will be available via the library and/or D2L

Course Requirements: Complete all the assignments in a timely manner; participate both in class discussions and in the on-line discussion for that part of the course. Specific directions for participation in various parts of the on-line class will be given (on D2L) – please read them. Assignments should be turned in via the dropbox on D2L.
Grading/Student Evaluation: Course assignment values:

- Final: 16% (comprehensive)
- Midterm: 13%
- Papers: 15%
- Homework: 25%
- Projects: 20%
- Quizzes: 7%
- Class Particip: 5%

I may adjust these values later in the semester

Class Attendance/Participation: Class attendance not required – BUT, much of the class lecture material will not be in the book – if you don’t come to class and miss something, it is YOUR RESPONSIBILITY to find out what you missed.

All holidays or special events observed by organized religions will be honored for those students who show affiliation with that particular religion. Absences pre-approved by the UA Dean of Students (or Dean’s designee will be honored.)

Course Schedule:

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<th>Week #</th>
<th>Topic area</th>
<th>Text Readings</th>
<th>assignments</th>
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<tbody>
<tr>
<td>IN</td>
<td>Week 1</td>
<td>Intro to safety</td>
<td>C1, C2, C3</td>
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<tr>
<td>IN</td>
<td>Week 2</td>
<td>Safety philosophy</td>
<td>C1, C2, C3</td>
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<td>IN</td>
<td>Week 3</td>
<td>OSHA &amp; Wrk Cmp</td>
<td>C4, C5, C6, C8</td>
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<tr>
<td>IN</td>
<td>Week 4</td>
<td>OSHA &amp; Wrk Cmp</td>
<td>C4, C5, C6, C8</td>
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<td>IN</td>
<td>Week 5</td>
<td>Prod Liab, Acc Inv</td>
<td>C7, C37</td>
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<td>IN</td>
<td>Week 6</td>
<td>Specific hazards</td>
<td>C9-11, C13</td>
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<tr>
<td>IN</td>
<td>Week 7</td>
<td>Specific hazards</td>
<td>C9-11, C13</td>
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<td>IN</td>
<td>Week 8</td>
<td>IH/Tox/Conf Spc</td>
<td>C24, C25</td>
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<td>IN</td>
<td>Week 9</td>
<td>Noise, PPE</td>
<td>C23, C28</td>
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<td>Week 10</td>
<td>Spring Break</td>
<td>your call</td>
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<td>ON</td>
<td>Week 11</td>
<td>Specific Hazards</td>
<td>C12, C14-19</td>
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<tr>
<td>ON</td>
<td>Week 12</td>
<td>Specific Hazards</td>
<td>C12, C14-19</td>
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<tr>
<td>IN</td>
<td>Week 13</td>
<td>Stress, Ergo intro</td>
<td>C31-33+</td>
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<td>IN</td>
<td>Week 14</td>
<td>Ergonomics</td>
<td>C33+</td>
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<td>IN</td>
<td>Week 15</td>
<td>Ergonomics</td>
<td>C33+</td>
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<td>IN</td>
<td>Week 16</td>
<td>Ergonomics</td>
<td>C33+</td>
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<tr>
<td>IN</td>
<td>Week 17</td>
<td>Ergonomics</td>
<td>C33+</td>
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Required Statements:

Communications: You are responsible for reading emails sent to your UA account and on D2L and the announcements that are placed on the course web site. Information about readings, news events, your grades, assignments and other course related topics will be communicated to you with these electronic methods. The official policy can be found at: http://www.registrar.arizona.edu/emailpolicy.htm
Disability Accommodation: If you anticipate issues related to the format or requirements of this course, please meet with me. I would like us to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Resources (621-3268; drc.arizona.edu) and notify me of your eligibility for reasonable accommodations. We can then plan how best to coordinate your accommodations. The official policy can be found at: http://catalog.arizona.edu/2008%2D09/policies/disability.htm

Academic Integrity: All UA students are responsible for upholding the University of Arizona Code of Academic Integrity, available through the office of the Dean of Students and online: The official policy found at:http://dos.web.arizona.edu/uapolicies/scc5308abcd.html and http://dos.web.arizona.edu/uapolicies/cai1.html.

Classroom Behavior: (Statement of expected behavior and respectful exchange of ideas) Students are expected to be familiar with the UA Policy on Disruptive Behavior in an Instructional Setting found at http://web.arizona.edu/~policy/disruptive.pdf and the Policy on Threatening Behavior by Students found at http://web.arizona.edu/~policy/threatening.pdf

Grievance Policy: Should a student feel he or she has been treated unfairly, there are a number of resources available. With few exceptions, students should first attempt to resolve difficulties informally by bringing those concerns directly to the person responsible for the action, or with the student's graduate advisor, Assistant Dean for Student and Alumni Affairs, department head, or the immediate supervisor of the person responsible for the action. If the problem cannot be resolved informally, the student may file a formal grievance using the Graduate College Grievance Policy found at http://grad.arizona.edu/catalog/policies/academic-policies/grievance-policy

Grade Appeal Policy: http://catalog.arizona.edu/2008%2D09/policies/gradappeal.htm. If you feel you have been unfairly graded, make an appeal and we will look into your situation.

Syllabus Changes: Please note: the syllabus is tentative – the information contained in the course syllabus is subject to change with reasonable advance notice, as deemed appropriate.

Plagiarism: is not allowed - do your own work – you are here to learn not to learn to copy – you probably already learned that somewhere else

Examples of plagiarism?
• Copying and pasting information from a web site or another source, and then revising it so that it sounds like your original idea.
• Quoting a passage without quotation marks or citations, so that it looks like your own.
• Paraphrasing a passage without citing it, so that it looks like your own.
• Hiring another person to do your work for you, or purchasing a paper through any of the on-line or off-line sources.