NOTE to prospective students: This syllabus is intended to provide students who are considering taking this course an idea of what they will be learning. A more detailed syllabus will be available on the course site for enrolled students and may be more current than this sample syllabus.

Course: H 385 Safety and Health Standards & Laws * 3 credits

Instructor: Josiah J. Roldan, PhD, MPH
College of Public Health and Human Sciences
School of Biological and Population Health Sciences
Environmental and Occupational Health & Safety Program
Email: roldanj@onid.orst.edu

Course Description: Since the inception of the Occupational Safety and Health Act of 1970, occupational safety and health regulations have changed dramatically and are expected to be more stringent in the years ahead. This course will provide students with basic information on occupational and environmental safety and health standards affecting the general industry and construction firms as mandated by the Occupational Safety and Health Administration (OSHA). A general understanding of OSHA’s organization structure and mission at both the federal and state levels will be covered. Occupational injuries and illness data and trends in the United States will be reviewed and contributing factors including human, mechanical, and program design will be presented. Safety and health regulations on specific construction and general industry activities that present the highest risk of occupational injuries and/or death and their prevention will be studied. Lastly, a comprehensive understanding of key elements of an effective safety program that are cost effective, employee-centric, and that promote a positive safety culture will also be explored.

H 385. SAFETY AND HEALTH STANDARDS AND LAWS (3).

Emphasis on the Occupational Safety and Health Act; study includes the scope and duties under the act, enforcement, and adjudication procedures and OSHA litigation; components of Oregon-OSHA.

This course combines approximately 90 hours of instruction, online activities, and assignments for 3 credits.

Course Objectives:

- Identify the purpose, scope and features of the OSHA Act; specifically Title 29 CFR Parts 1910 – Safety and Health Regulations for General Industry and Title 29 CFR Part 1926 - Safety and Health Regulations for Construction.
- Describe the general administrative rules and duties under the act, including compliance with standards, and OSHA enforcement procedures and procedures for adjudication of citations and fines at the federal and state level.
- Understand the leading occupational injuries and fatalities in the U.S. and factors that contribute to injuries and fatalities.
- Describe procedures for identifying and controlling exposures to hazards in the general industry and construction work environments.
- Identify the elements needed for designing effective occupational safety and health program.
- Recognize federal and state environmental requirements for the construction industry.

Program Competencies in Public Health: Upon satisfactory completion of the degree in Public Health, the students will have met the program competencies found at http://health.oregonstate.edu/degrees/competencies.
Canvas: This course will be delivered via Canvas, your online learning community, where you will interact with your classmates and with me. Within the course Canvas site you will access the learning materials, tutorials, and syllabus; discuss issues; submit assignments; email other students and the instructor; participate in online activities; and display your projects. To preview how an online course works, visit the Ecampus Course Demo.

COURSE SITE LOGIN INFORMATION
Information on how to login to your course site can be found HERE.

Technical Assistance: If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the OSU Computer Helpdesk online.

- COURSE DEMO
- GETTING STARTED

Learning Resources:
Reese, C.D. & Eidson, J.V. (2006). Handbook of OSHA Construction Safety and Health, 2nd Edition. CRC Press, Boca Raton, FL. The textbook is available in electronic format through the OSU’s Valley Library by clicking on the following link (you must have an ONID account to access the textbook):


Assigned Readings: Weekly readings in addition to the textbook will be assigned and available in the weekly folders under “Week by “Week” tab in Canvas.

NOTE: For textbook accuracy, please always check the textbook list at the OSU Bookstore website. Sample syllabi may not have the most up-to-date information.

Course Evaluation of Student Performance:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction Post (3) and Initial Assessment (2)</td>
<td>5</td>
</tr>
<tr>
<td>Weekly Discussion Posts and Readings</td>
<td>70</td>
</tr>
<tr>
<td>Quizzes</td>
<td>80</td>
</tr>
<tr>
<td>Midterm Examination</td>
<td>80</td>
</tr>
<tr>
<td>Final Examination</td>
<td>100</td>
</tr>
<tr>
<td>Health &amp; Safety Article Abstract Report</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>365 points</strong></td>
</tr>
</tbody>
</table>

Final Grades:

A total of 365 points is possible for the course and the percentage of the total points obtained will be used to determine your grade according to the following:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>94 - 100%</td>
<td>A</td>
</tr>
<tr>
<td>90 - 93%</td>
<td>A-</td>
</tr>
<tr>
<td>87-89%</td>
<td>B+</td>
</tr>
<tr>
<td>84-86%</td>
<td>B</td>
</tr>
<tr>
<td>74-76%</td>
<td>C</td>
</tr>
<tr>
<td>64-66%</td>
<td>D</td>
</tr>
<tr>
<td>70-73%</td>
<td>C-</td>
</tr>
<tr>
<td>60-63%</td>
<td>D-</td>
</tr>
<tr>
<td>67-69%</td>
<td>D+</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

This course is offered through Oregon State University Extended Campus. For more information, contact:
Web: ecampus.oregonstate.edu Email: ecampus@oregonstate.edu Telephone: 800-667-1465
Course Policies:

**Incompletes** — Take this course only if you plan to finish it in a timely manner (during this term). I assign an "I" or incomplete only when there is a strong and compelling case for doing so (e.g., health reasons, military commitment). I will not consider assigning an incomplete unless the individual has completed over 50% of the course tasks. Please note that students receiving incompletes are subject to assignment weight reduction (and consequently may not be eligible for A or A- grades) because some of their work will be submitted late.

**Statement Regarding Students with Disabilities:**
Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS) with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

**Expectations for Student Conduct:**
Student conduct is governed by the university’s policies, as explained in the Student Conduct & Community Standards.

In an academic community, students and faculty, and staff each have responsibility for maintaining an appropriate learning environment, whether online or in the classroom. Students, faculty, and staff have the responsibility to treat each other with understanding, dignity and respect. Disruption of teaching, administration, research, and other institutional activities is prohibited by Oregon Administrative Rule 576-015-0015 (1) and (2) and is subject to sanctions under university policies.

**Academic Integrity** — Students are expected to comply with all regulations pertaining to academic honesty, defined as: An intentional act of deception in which a student seeks to claim credit for the work or effort of another person or uses unauthorized materials or fabricated information in any academic work. For further information, visit Avoiding Academic Dishonesty, or contact the office of Student Conduct and Mediation at 541-737-3656.

**Conduct in this online classroom** — Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the university's regulations regarding civility. Students will be expected to treat all others with the same respect as they would want afforded themselves. Disrespectful behavior to others (such as harassing behavior, personal insults, inappropriate language) or disruptive behaviors in the course (such as persistent and unreasonable demands for time and attention both in and out of the classroom) is unacceptable and can result in sanctions as defined by Oregon Administrative Rules Division 015 Student Conduct Regulations.

**Communications:**

**Ground Rules for Online Communication & Participation:**
- *Online threaded discussions* are public messages, and all writings in this area will be viewable by the entire class or assigned group members. If you prefer that only the instructor sees your communication, send it to me by email, and be sure to identify yourself and the class.
- Posting of personal contact information is discouraged (e.g. telephone numbers, address, personal website address).
- **Online Instructor Response Policy:** I will check email frequently and will respond to course-related questions within 24-48 hours.
- **Observation of "Netiquette":** All your online communications need to be composed with fairness, honesty and tact. Spelling and grammar are very important in an online course. What you put into an online course reflects on your level of professionalism. Here is a reference that discusses writing online:
- Participate actively in the discussions, only after having completing the readings and thinking about the issues.
- Pay close attention to what your classmates write in their online comments. Ask clarifying questions, when appropriate. These questions are meant to probe and shed new light, not to minimize or devalue your colleague’s comments.
- Think through and reread your comments before you post them.
• Value the diversity of the class. Recognize and value the experiences, abilities, and knowledge each person brings to class.

Course Assignments:

Quizzes:
There will be short quizzes on select weeks during the term. Quizzes will be a combination of true/false and/or multiple choice questions. They will appear under the “Week by Week” tab of Blackboard, in the designated Week folder by 8 AM on Friday of that particular week. The quiz will be accessible for 48 hours. The quizzes are timed and you must complete the entire quiz in the time allotted. Once you start the quiz, you have to finish it; you cannot log off and come back to it.

Examinations:
A midterm and final examination will be given during the 5th week and 10th week of the course, respectively. The examinations will be available by 8 AM on Friday of that particular week and will be accessible for 48 hours. The exams will compose of multiple choice, True or False, and short answer questions. The examinations are timed and you must complete the entire exam in the time allotted. Once you start the exam, you have to finish it; you cannot log off and come back to it.

Discussion Board Participation:
Every week you are expected to participate in discussion forums. You must answer the forum’s questions for that week by WEDNESDAY at 5 PM PST and then respond to at least TWO other’s responses by Friday at 5 PM PST of each designated week. Please refer to the course content at the end of the syllabus for the schedule of the readings that need to be completed in order to answer the discussion questions for each week. For each discussion board, there is a maximum of 10 points. Refer to the discussion forum Rubrics on grading criteria at the end of the syllabus.

Health and Safety Article Abstract Report
Students will review three (3) existing safety and health regulatory problems affecting general industry or construction firms that have been published in journals or Safety Magazines. Each article abstract should include a bibliography and an executive summary of the occupational safety and health regulatory compliance issue. The executive summary shall include the safety or health regulatory problem and counter-measure(s) or strategies taken to address problem. If no counter-measures or strategies are presented in the article, then recommend a counter-measure that you think would solve the problem based on the knowledge you gained in the course.

Course content:

Week 1: Introduction to H385 and Occupational Safety and Health Administration (OSHA): A Historical Perspective
• Readings and Resources
  o Textbook: Reese & Eidson Chapter 1: Introduction (pgs. 1-11, 19-20)
  o Video: Why OSHA Was Created: http://www.youtube.com/watch?v=wOlygTRvQnc
• Lecture
  o Historical Perspective on OSHA PowerPoint (PPT)
• Discussion Board
  o Introduce yourself (3 points)
  o Discussion Board Guidelines
• Initial Assessment Questionnaire
  o Initial assessment questionnaire (2 points) – DO NOT LOOK UP ANSWERS, try to answer them to the best of your ability. No points will be deducted for wrong answers.
• Quiz

Week 2: Introduction to OSHA: Mission, Structure and Standards
This course is offered through Oregon State University Extended Campus. For more information, contact:

Web: ecampus.oregonstate.edu          Email: ecampus@oregonstate.edu          Telephone: 800-667-1465
- Medical and First Aid – pg. 326
- Potable (Drinking) Water – pg. 331
- Signs, Signals, and Barricades – pg. 379
  - OSHA HazCom Label
  - OSHA HazCom Pictograms
  - OSHA HazCom Safety Data Sheet
- Lecture
  - General Safety and Health Provisions in the Workplace PowerPoint Lecture
- Discussion Board
- Quiz

**Week 7: Trenching and Excavation Hazards and Accident Prevention**

- Readings and Resources
  - Textbook: Reese & Eidson
    - Chapter 7 Construction Safety - pgs. 236-244
  - OSHA Excavation and Trenching Fact Sheet
- Lecture and videos
  - Trenching & Excavation Hazards and Accident Prevention PowerPoint Lecture
  - Video 1: OSHA Trenching and Excavation Safety
  - Video 2: OSHA Excavations in Construction – Soil Classification
- Discussion Board
- Quiz

**Week 8: Scaffolding Hazards & Accident Prevention and Lockout/Tagout**

- Readings and Resources
  - Textbook: Reese & Eidson
    - Chapter 7 Construction Safety - pgs. 168, 357-378
    - Chapter 8 Construction Safety – pgs. 315-321
  - OSHA Guide on Using Aerial Lifts
  - Georgia OSHA – Use of Supported Scaffold Fact Sheet
  - OSHA Lockout/Tagout Fact Sheet
  - NIOSH Lockout/Tagout Procedures
- Lectures and videos:
  - Scaffolding Hazards and Accident Prevention and Lockout/Tagout PowerPoint Lecture
  - Video: High Pressure/Temperature Steam Release During Engine Room Repair
- Quiz

**Week 9: Environmental Regulations for the Construction Industry and Design for Safety**

- Readings and Resources
  - Goetsch, David: Construction Safety & Health, Chapter 20 Environmental Safety (pgs. 304-309)
  - Guide to Handling Fugitive Dust from Construction Projects
  - EPA Environmental Requirements in Construction
  - EPA Stormwater and the Construction Industry
- Lectures and videos
  - Environmental Requirements for the Construction Industry PowerPoint Lecture
  - Dr. Gambatese Design for Safety PowerPoint Lecture
  - Video: Interview with Dr. John Gambatese
- Discussion Board
- Quiz

**Week 10: Elements of an Effective Safety Program and Worker’s Compensation**

- Readings
  - Textbook: Reese & Eidson
    - Chapter 4: Construction Safety and Health Program
  - Goetsch, David: Construction Safety & Health, Chapter 5 Worker’s Compensation (pgs. 49 -66)
- Lecture
  - Elements of an Effective ES&H Program PPT

This course is offered through Oregon State University Extended Campus. For more information, contact:
Web: ecampus.oregonstate.edu
Email: ecampus@oregonstate.edu
Telephone: 800-667-1465
• Video: Melissa Diedi interview – SAIF Corporation
• Discussion Board
• Health and Safety Abstract Report due by Friday, 8 PM
• **Final Examination**

**REFUND POLICY INFORMATION**

Please see the [Ecampus website](https://ecampus.oregonstate.edu) for policy information on refunds and late fees.