

# Course Syllabus

[Jump to Today](#)

 [Edit](#)

**ENVH 564**  
**RECOGNITION OF HEALTH AND SAFETY HAZARDS IN INDUSTRY**  
**Autumn Quarter, 2017**  
**2 Credits**

**Instructors:** Marty Cohen, ScD, CIH, CSP, [mcohen@uw.edu](mailto:mcohen@uw.edu),  
(<mailto:mcohen@uw.edu>) 616-1905

Noah Seixas, PhD, CIH [nseixas@uw.edu](mailto:nseixas@uw.edu), (<mailto:nseixas@uw.edu>) 685-7189

**Time:** Mondays 10:30 - 12:20 (with extensions for field trips)  
**Place:** Sieg Hall (SIG) 230  
**URL:** <https://canvas.uw.edu/courses/1117286>

**Introduction:** This course is designed to provide an introduction to the recognition of occupational safety and health hazards and approaches to controlling hazards, primarily through tours of representative local industrial facilities. Lectures consist of an introduction to hazard recognition and control strategies, and discussions will address the hazards of the various industries toured.

**Learning objectives.** At the conclusion of this course, students will be able to:

1. Identify hazards associated with specific industrial processes.
2. Identify alternative control options for several health and safety problems in a wide range of industrial processes.
3. Develop a strategy for conducting a walkthrough assessment of an industrial process.
4. Describe hazards in clear written language associated with industrial processes using specific field observations.
5. Clearly communicate health and safety hazards to various audiences.

## **Student Requirements:**

1. Students must attend lectures and complete assigned readings in advance. [Ear plug use video on first day is required.](#)

2. Students must be prepared and dressed appropriately for all field trips. If not dressed appropriately, student will not be allowed on site.

3. Students complete:

- **Industry Reviews:** A summary of each industry being visited will be due the week of that site visit for the 2<sup>nd</sup> and 5<sup>th</sup> site visits only. The summary will include the following sections (please keep them in this order): Definition of Industry, Processes, Hazards, and Exposure Controls and Applicable Health and Safety Standards. For more detail, see Files>Report Outlines & Examples in Canvas. These documents should be less than 2 pages in length, excluding references (please use multiple references). For the 3<sup>rd</sup> and 4<sup>th</sup> site visits, the same information should be investigated, but a written report is not required. Your knowledge of the industry may be tested on the way to the sites. For an example, see Files>Report Outlines & Examples in Canvas.
- **Walk-Through Report:** This technical report will summarize one of the tours. It should describe the company, their health and safety program structures, the company-specific production processes, raw materials used, potential for hazards and exposures, and recommendations for controls. The report should be no longer than 10 pages (excluding references) and should include appropriate bibliographic citations, including primary research sources. Assignments for who will summarize which tours will be made on the first day of class. The report will be due 2 weeks after your assigned site visit. Please use the structure shown in the guidance document where appropriate and submit the reports in the Assignment section for "Site Visit Report". For an example, see Files>Report Outlines & Examples in Canvas. Only the 3<sup>rd</sup> and 4<sup>th</sup> site visits will be assigned for these reports.
- **Hazard Identification Exercises:** These exercises will help the students develop skills in hazard and controls identification. These short exercises will be one page or less in length and due one week after the site visits. See Files>Report Outlines & Examples>HazIDExQuestions2015.docx in Canvas for the questions. Only four of these will be required, as one will not be required for the site visit for which you write a site visit report.

**Grading:** Industry reviews (20%, 2 @ 10% each), Hazard identification exercises (30%, 4 @ 7.5% each), Walk-through report (40%), and Class participation (10%).

**There will be 2 sections in the class (1 and 2).** Section 1 will be responsible for a Hazard ID for site visit 3 and Site Visit Report for site visit 4. Section 2 will be responsible for a Hazard Review for site visit 4 and Site Visit Report for site visit 3. Sections will be assigned during the first class.

Following is the grading scale that will be used:

# grade	Letter	%age	# grade	Letter	%age
4	A	100	2.8	B-	83
3.9	A	98	2.7	B-	82
3.8	A-	96	2.6	B-	81
3.7	A-	94	2.5	B-	80

3.6	A-	92	2.4	C+	79
3.5	A-	90	2.3	C+	77
3.4	B+	89	2.2	C+	76
3.3	B+	88	2.1	C	75
3.2	B+	87	2.0	C	74
3.1	B	86	1.9	C	73
3.0	B	85	1.8	C-	71
2.9	B	84	1.7	C-	70

**Writing:** One component of your grades for the written assignments will be your ability to clearly convey your ideas and information to the reader. If you are having difficulties, the UW has a good resource to assist students improve their writing skills (<https://depts.washington.edu/owrc/> (<https://depts.washington.edu/owrc/>)). The Department of Environmental and Occupational Health Sciences also has a class on Technical writing in Environmental Health (ENVH 520).

Tips for your writing:

1. The writing required in the class is not creative writing, it is technical writing.
2. All figures, graphs, photos, and tables must be numbered and have a descriptive caption. These should also be referenced in the text.

### **Text Book**

#### Highly Recommended

Burgess, WA. Recognition of Health Hazards in Industry: A Review of Materials and Processes. 2nd edition, New York, John Wiley and Sons. 1995

**Academic Integrity** (<http://sph.washington.edu/students/academicintegrity/> (<http://sph.washington.edu/students/academicintegrity/>))

Students at the University of Washington (UW) are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. Assignments may be evaluated using **Vericite** (<https://vericite.com/>), which is a tool to help evaluate the integrity of written assignments.

The UW School of Public Health (SPH) is committed to upholding standards of academic integrity consistent with the academic and professional communities of which it is a part. Plagiarism, cheating, and other misconduct are serious violations of the University of Washington **Student Conduct Code** (WAC 478-120). We expect you to know and follow the university's policies on cheating and plagiarism, and the **SPH Academic Integrity Policy**. Any suspected cases of academic misconduct will be handled according to University of Washington regulations. For more information, see the University of Washington **Community**

**Standards and Student Conduct** website.

**Access and Accommodation** (<http://depts.washington.edu/uwdrs/faculty-resources/syllabus-statement/>  
(<http://depts.washington.edu/uwdrs/faculty-resources/syllabus-statement/>):

Your experience in this class is important to me. If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or [uwdrs@uw.edu](mailto:uwdrs@uw.edu) (<mailto:uwdrs@uw.edu>) or [disability.uw.edu](http://disability.uw.edu). DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.

## Inclusion

The UW School of Public Health seeks to ensure all students are fully included in each course. We strive to create an environment that reflects community and mutual caring. We encourage students with concerns about classroom climate to talk to your instructor, your advisor, a member of the departmental or SPH Diversity Committee and/or the program director. [DCinfo@uw.edu](mailto:DCinfo@uw.edu) (<mailto:DCinfo@uw.edu>) is a resource for students with classroom climate concerns

## Course Summary:

Date	Details	
Mon Oct 2, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789968">Class 1 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789968">https://canvas.uw.edu/courses/1117286/assignments/3789968</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789979">How People Interact with Chemicals in the Workplace</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789979">https://canvas.uw.edu/courses/1117286/assignments/3789979</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789980">How to Properly Wear Ear Plugs</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789980">https://canvas.uw.edu/courses/1117286/assignments/3789980</a> )	due by 10:30am
Mon Oct 9, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789969">Class 2 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789969">https://canvas.uw.edu/courses/1117286/assignments/3789969</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789986">Site Visit 1 - Foundry</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789986">https://canvas.uw.edu/courses/1117286/assignments/3789986</a> )	due by 10:30am
	 <a href="#">Class 3 Reading</a>	due by 10:30am

Mon Oct 16, 2017	<a href="https://canvas.uw.edu/courses/1117286/assignments/3789970">https://canvas.uw.edu/courses/1117286/assignments/3789970</a>	
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789982">North Star Haz ID Exercise</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789982">https://canvas.uw.edu/courses/1117286/assignments/3789982</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789971">Class 4 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789971">https://canvas.uw.edu/courses/1117286/assignments/3789971</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789996">Commercial Building Construction Review</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789996">https://canvas.uw.edu/courses/1117286/assignments/3789996</a> )	due by 10:30am
Mon Oct 23, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789985">SawStop Video</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789985">https://canvas.uw.edu/courses/1117286/assignments/3789985</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789987">Site Visit 2 - Commercial Building Construction site</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789987">https://canvas.uw.edu/courses/1117286/assignments/3789987</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789972">Class 5 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789972">https://canvas.uw.edu/courses/1117286/assignments/3789972</a> )	due by 10:30am
Mon Oct 30, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789994">Life Sciences Building Haz ID Exercise</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789994">https://canvas.uw.edu/courses/1117286/assignments/3789994</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789973">Class 6 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789973">https://canvas.uw.edu/courses/1117286/assignments/3789973</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789988">Site Visit 3 - Cabinet &amp; Retail Fixture mfg</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789988">https://canvas.uw.edu/courses/1117286/assignments/3789988</a> )	due by 10:30am
Mon Nov 6, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789995">The Importance of Using a Fit Tested Respirator</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789995">https://canvas.uw.edu/courses/1117286/assignments/3789995</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789976">Woodworking Review</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789976">https://canvas.uw.edu/courses/1117286/assignments/3789976</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789974">Class 7 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789974">https://canvas.uw.edu/courses/1117286/assignments/3789974</a> )	due by 10:30am
Mon Nov 13, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789977">Synsor Haz ID Exercise - Section 1</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789977">https://canvas.uw.edu/courses/1117286/assignments/3789977</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789975">Class 9 Reading</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789975">https://canvas.uw.edu/courses/1117286/assignments/3789975</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789981">Lead-Acid Battery Mfg. Review</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789981">https://canvas.uw.edu/courses/1117286/assignments/3789981</a> )	due by 10:30am
Mon Nov 20, 2017	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789989">Site Visit 4 - Lead-Acid Battery Mfg.</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789989">https://canvas.uw.edu/courses/1117286/assignments/3789989</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1117286/assignments/3789991">Site Visit (Synsor) Report - Section 2</a> ( <a href="https://canvas.uw.edu/courses/1117286/assignments/3789991">https://canvas.uw.edu/courses/1117286/assignments/3789991</a> )	due by 11:59pm

---

 **Site Visit 5 - Steel Mill**  
(<https://canvas.uw.edu/courses/1117286/assignments/3789990>)

due by 10:30am

Mon Dec 4, 2017

---

 **Steel Mill Review**  
(<https://canvas.uw.edu/courses/1117286/assignments/3789993>)

due by 10:30am

---

 **Site Visit (Dyno) Report - Section 1**  
(<https://canvas.uw.edu/courses/1117286/assignments/3789992>)

due by 11:59pm

---

Mon Dec 11, 2017

 **Nucor Hazard ID Exercise**  
(<https://canvas.uw.edu/courses/1117286/assignments/3789983>)

due by 10:30am

---

 **Dyno Battery Haz ID Exercise - Section 2**  
(<https://canvas.uw.edu/courses/1117286/assignments/3789978>)

---

 **Participation** (<https://canvas.uw.edu/courses/1117286/assignments/3789984>)

---