

# Course Syllabus

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## ENVH 460/560 Occupational Safety Management

**ENVH 460 - 3 Credits ENVH 560-4 Credits**

**Instructor Name: Rick Gleason, CIH, CSP Winter 2021**

**Time: Tuesdays 11:30 am - 2:20 pm**

**Location: Remotely by Zoom**

Winter Quarter, 2021, 4 credits for ENVH 560 / 3 Credits for ENVH 460, 10 weeks

Time: Tuesday, 11:30 – 2:20 pm (ENVH 460 and 560)

Location: Online

Instructor: Rick Gleason, MSPH, CIH, CSP [rgleason@uw.edu \(mailto:rgleason@uw.edu\)](mailto:rgleason@uw.edu)

Phone: (206) 856-6660

[rgleason@uw.edu](mailto:rgleason@uw.edu)

<http://faculty.washington.edu/rgleason> (<http://faculty.washington.edu/rgleason>)

Office Hours by appointment

Richard Gleason is inviting you to a scheduled Zoom meeting.

Topic: ENVH 460/560

Time: Jan 5, 2021 11:30 AM Pacific Time (US and Canada)

Every week on Tue, until Mar 9, 2021, 11 occurrence(s)

Jan 5, 2021 11:30 AM

Jan 12, 2021 11:30 AM

Jan 19, 2021 11:30 AM

Jan 26, 2021 11:30 AM

Feb 2, 2021 11:30 AM

Feb 9, 2021 11:30 AM

Feb 16, 2021 11:30 AM

Feb 23, 2021 11:30 AM

Mar 2, 2021 11:30 AM

Mar 9, 2021 11:30 AM

Mar 16, 2021 11:30 AM

Join Zoom Meeting

<https://washington.zoom.us/j/93245290333> ↗ [. \(https://washington.zoom.us/j/93245290333\)](https://washington.zoom.us/j/93245290333)

Each student will give a presentation to the entire class of approximately 15 minutes and approximately 15 powerpoint slides. Each student should also prepare 3 questions regarding their topic at the end of their powerpoint. The presentation will be worth 75 points. Questions from the student presentation will be incorporated into the final exam.

Total points for the class are 10 weekly assignments of 25 points each

One presentation 75 points one final exam 75 points for a total of 400 points. Attendance by Zoom will add 100 bonus points (10 sessions x 10 weeks).

ENVH 460/560 Presentations

January 12, 2021

Workplace Violence Prevention \_\_\_\_\_ Karina \_\_\_\_\_

Driving Motor Vehicle Safety \_\_\_\_\_ Ahyjot \_\_\_\_\_

Introduction to OSHA \_\_\_\_\_ Allen \_\_\_\_\_

Respirable Silica \_\_\_\_\_ Nick \_\_\_\_\_

January 19, 2021

Late Night Retail Worker Safety \_\_\_\_\_ Maya \_\_\_\_\_

Access Medical Records Exposure \_\_\_\_\_ Abbey \_\_\_\_\_

Office Safety \_\_\_\_\_ Wendy \_\_\_\_\_

Teen Safety \_\_\_\_\_ Jhane \_\_\_\_\_

January 26, 2021

Machine Guarding \_\_\_\_\_ Bruk \_\_\_\_\_

Lockout-Tagout (LOTO) \_\_\_\_\_ Sabrina \_\_\_\_\_

Electrical Safety \_\_\_\_\_ Nasif \_\_\_\_\_

Heat Illness \_\_\_\_\_ Richard \_\_\_\_\_

February 2, 2021

Fire Extinguishers \_\_\_\_\_ Dianna \_\_\_\_\_

Confined Spaces \_\_\_\_\_ Yoojin \_\_\_\_\_

Welding Safety \_\_\_\_\_ Jackie \_\_\_\_\_

Process Safety Management \_\_\_\_\_ Linda \_\_\_\_\_

February 9, 2021

Hearing Conservation Noise \_\_\_\_\_ Kassie \_\_\_\_\_

Arsenic \_\_\_\_\_ Cassandra \_\_\_\_\_

Respiratory Protection \_\_\_\_\_ Sophia \_\_\_\_\_

Hazcom Chemical Hazard Communication (GHS) \_\_\_\_\_ Marissa \_\_\_\_\_

February 16 , 2021

Flammable Material Storage \_\_\_\_\_ Michael \_\_\_\_\_

Bloodborne Pathogens \_\_\_\_\_ Yikang \_\_\_\_\_

Solvent Safety \_\_\_\_\_ Ayushi \_\_\_\_\_

Occupational Asthma \_\_\_\_\_ Amanda \_\_\_\_\_

February 23, 2021

Forklift (Powered Industrial Trucks) \_\_\_\_\_ Kendal \_\_\_\_\_

Eye Safety \_\_\_\_\_ Anureet \_\_\_\_\_

Hand Safety \_\_\_\_\_

Ergonomics \_\_\_\_\_ Thuan \_\_\_\_\_

March 2, 2021

OSHA Recordkeeping\_\_\_\_\_

Egress Fire \_\_\_\_\_ Janelle \_\_\_\_\_

Preventing Slips Trips and Falls \_\_\_\_\_ Ben \_\_\_\_\_

Scaffold Safety \_\_\_\_\_

March 9, 2021

Methylene Chloride \_\_\_\_\_

Emergency Eyewash \_\_\_\_\_ Julia \_\_\_\_\_

Last Assignment Due March 16, 2021 No Class

**Text provided free as a PDF under the course File Section. It is the OSHA 7500 Introduction to Safety and Health Management (330 pages) provided by the Pacific Northwest OSHA Training Center, Region X.**

**Course Description:**

This class will cover the basics of a company safety and health program and the minimum requirements under Federal OSHA and State OSHA. Students will also receive their 30 hour OSHA General Industry Safety and Health Training Card from OSHA at the successful completion of the course. All students will present their findings for specific industry hazards and graduate students will develop an additional industry safety and health written accident prevention program.

Each student will give a presentation to the entire class of approximately 15 minutes and approximately 15 powerpoint slides. Each student should also prepare 30 copies of a short quiz with 3 questions regarding their topic. Students in attendance will be able to take the quiz and receive extra credit for listening attentively to their peers. The presentation will be worth 75 points.

Total points for the class are 10 weekly assignments of 25 points each

One presentation 75 points one final exam 75 points for a total of 400 points. Weekly students questions from their presentation can also add 75 bonus points if you are in class and complete the quizzes.

## Access and Accommodations

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 are 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 \(http://depts.washington.edu/uwdrs/\)](http://depts.washington.edu/uwdrs/). 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.

## Religious Accommodations

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious Accommodations Policy \(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/). Accommodations must be requested within the first two weeks of this course using the [Religious Accommodations Request form \(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/).

**Learning Objectives:** At the end of this course, the student will be able to:

1. identify the components needed to provide a safe and healthful work environment through case studies and review of injury statistics provided in the course.
2. analyze safety and health issues resulting from worker complaints or OSHA violations and suggest potential remedies.
3. identify potential workplace safety and health hazards and determine how to mitigate the hazards through engineering controls, administrative controls and personal protective equipment.
4. demonstrate research skills necessary for mastery of the topic, which will entail a presentation on a specific industry. Worker compensation claims in the industry selected by the student will be evaluated and injury prevention methods reviewed in the report.



- Jan. 19, 2021                      Late Night retail -Violence Prevention / Driving Safety,  
Motor Vehicle Safety / Access to Medical records  
  
Office Safety/Teen Safety
- Jan. 26, 2021                      Machine Guarding (1910.212)  
  
Lockout-Tagout 1910.147  
  
Electrical Hazards (Subpart S)  
  
Heat Illness (Outdoor Heat Related Illness)
- Feb. 2, 2021                      Fire and Emergency Egress  
  
Fire Extinguishers  
  
Confined Spaces (1910.146)  
  
Welding Safety  
  
Process Safety management
- Feb. 9, 2021                      Ventilation, Exposure Controls, Noise 1910.95  
  
Respiratory Protection (1910.134)  
  
HazCom Chemical Hazard Communication, MSDS /  
Asbestos / Arsenic
- Feb. 16, 2021                      Storage of Flammable Materials  
  
Bloodborne Pathogens (1910.130)  
  
Methylene Chloride / Occupational Asthma
- Feb. 23, 2021                      Forklift Safety (Material Handling) (1910.178)  
  
Personal Protective Equipment (1910.132) / Eye Safety / Hand  
Safety / Ergonomics

March 2, 2021 OSHA Record Keeping / Emergency Eyewash /  
Ladder Safety / Scaffold Safety

March 9, 2021 Accident and Incident Investigation (Last Class)  
Root Cause Analysis Last Class  
Take Home Exam Provided on Canvas

March 16, 2019 Take Home Final Exam Due

## Grading

**Undergraduate grades** (ENVH 460) are based upon a midterm (25%), a final (25%), a 20 minute oral presentation to the class for a specific industry (25%) and Homework (25%).

**Graduate Grades** (ENVH 560) are based upon a midterm (20%), a final (20%), a written Company Health and Safety Program (25%), a 20 minute oral presentation to the class for a specific industry (15%) and Homework (20%).

To request academic accommodations due to a disability, please contact Disability Resources for Students, 448 Schmitz Hall, 206-543-8924 (V/TTY). If you have a letter from Disability Resources for Students indicating that you have a disability which requires academic accommodations, please present the letter to me so we can discuss the accommodations you might need in this class.

- Academic Integrity Statement - Students at the University of Washington (UW) are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. 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](http://sph.washington.edu/students/academicintegrity/) <sup>↗</sup> (<http://sph.washington.edu/students/academicintegrity/>). 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.

Additional Graduate Student ENVH 560 Organizing and Administering Industrial Safety and Health Programs Class Assignment (Undergraduate Students are not required to complete this assignment)



Each **graduate** student will write a complete Company Health and Safety Accident Prevention Program for a specific type of industry. The list below gives examples of the types of industries and the types of chapters in your manual. A presentation to the class on the hazards of that industry will also be provided.

Possible Industries (although you can select any type of industry you would like)

Aluminum Smelter	Meat Packing
Auto Repair Shops	Metal Fabrication Shop
Bakery	Mining
Chemical Manufacturer	Pesticide Applicator
Construction Industry	Petroleum Refining
Food Processing	Plating Shop
Foundry	Plumbing Contractor
Grain Elevator	Pulp Mill
Grocery Store	Retail Establishment
Hospital/ Health Care	Sawmill
Laboratory	Service Station
Laundry	Shipbuilding
Logging	Etc.

These are some of the chapters that will need to be considered for your manual:

- \*Accident Prevention
- \*Chemical Hazard Communication, MSDS
- \*Personal Protective Equipment, Job Hazard Assessment
- \*Ergonomics
- New Employee Orientation

Hearing Protection

Respiratory Protection

Medical Monitoring

Bloodborne Pathogen Program

Asbestos Awareness

Lockout-Tagout

Confined Space Entry

Machine Guarding

Motor Vehicle Safety

Ergonomics

Electrical Safety








Fall Protection






Fire Protection/Emergencies

There should be at least 8 chapters. The first four \*must be included and any of the other topics could be included in the remainder of the chapters.

All students who successfully complete the course will also receive an OSHA 511 30 hour General Industry Safety and Health Standards Card.

## Course Summary:

Date	Details	Due
Tue Mar 19, 2019	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816387">Assignment 12 Graduate Student Acc. Prev Program</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816387">https://canvas.uw.edu/courses/1434423/assignments/5816387</a>	due by 11:59pm
Tue Jan 12, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816385">Assignment 1</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816385">https://canvas.uw.edu/courses/1434423/assignments/5816385</a>	due by 11:30am
Tue Jan 19, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816388">Assignment 2</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816388">https://canvas.uw.edu/courses/1434423/assignments/5816388</a>	due by 10:30am
Tue Jan 26, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816389">Assignment 3</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816389">https://canvas.uw.edu/courses/1434423/assignments/5816389</a>	due by 10:30am
Tue Feb 2, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816390">Assignment 4</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816390">https://canvas.uw.edu/courses/1434423/assignments/5816390</a>	due by 10:30am
Tue Feb 9, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816391">Assignment 5</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816391">https://canvas.uw.edu/courses/1434423/assignments/5816391</a>	due by 10:30am
Tue Feb 16, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816392">Assignment 6</a> <a href="https://canvas.uw.edu/courses/1434423/assignments/5816392">https://canvas.uw.edu/courses/1434423/assignments/5816392</a>	due by 10:30am

Date	Details	Due
Tue Feb 23, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816393">Assignment 7</a> ( <a href="https://canvas.uw.edu/courses/1434423/assignments/5816393">https://canvas.uw.edu/courses/1434423/assignments/5816393</a> )	due by 10:30am
Tue Mar 2, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816394">Assignment 8</a> ( <a href="https://canvas.uw.edu/courses/1434423/assignments/5816394">https://canvas.uw.edu/courses/1434423/assignments/5816394</a> )	due by 10:30am
Tue Mar 9, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816395">Assignment 9</a> ( <a href="https://canvas.uw.edu/courses/1434423/assignments/5816395">https://canvas.uw.edu/courses/1434423/assignments/5816395</a> )	due by 10:30am
Tue Mar 16, 2021	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816386">Assignment 10</a> ( <a href="https://canvas.uw.edu/courses/1434423/assignments/5816386">https://canvas.uw.edu/courses/1434423/assignments/5816386</a> )	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1434423/assignments/5816396">Roll Call Attendance</a> ( <a href="https://canvas.uw.edu/courses/1434423/assignments/5816396">https://canvas.uw.edu/courses/1434423/assignments/5816396</a> )	