

## **ENVH 446 - Hazardous Waste and Public Health**

Winter Quarter, 2018

- Instructor: John C. Kissel, Ph.D.  
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- Office hours: To be arranged (drop-ins welcome except 2-3:30 MW)
- Class Period: MW 3:30-4:50
- Location: E-216
- Description: Characterization of hazardous wastes and introduction to pertinent federal and state regulations. Discussion of significance of hazardous wastes and related facilities with respect to human and environmental health. Description of management options at post- and pre-generation stages. Supplemented with case studies.
- Objectives: At conclusion of the course students should be able to: define hazardous waste; describe the primary provisions of RCRA and CERCLA; demonstrate familiarity with current hazardous waste management issues and jargon; recognize and interpret terminology used to quantitatively describe chemical exposure and risk; interpret the physical-chemical properties of individual chemicals with respect to their impact on fate, transport and human exposure; describe key epidemiological investigations of hazardous waste sites; state conditions under which exposure pathways are likely to be completed; describe technological approaches to waste destruction and containment; and contrast pre-generation, pre-release, and post-release management options.

Grading:	Midterm	30%
	Final	30%
	Problem sets #1-6	30%
	Participation	10%

Text: No text. Notes, supplemental readings and other materials will be provided via Canvas.

**Academic Integrity** (<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.*

*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/>):

*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) 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.*