

# ENV H 586 A Au 21: Current Issues In Occupational Health At The Human Animal Interface

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## **ENV H 586A: Seminar in Current Issues of Occupational Health at the Human Animal Interface/One Health**

Autumn Quarter 2020, 2 credits (graded)

Day/time: Thursday 1:30-3:20

Room: GNOM SO60 , and by Zoom <https://uw-phi.zoom.us/j/93879935332> [. \(https://uw-phi.zoom.us/j/93879935332\)](https://uw-phi.zoom.us/j/93879935332)

### **INSTRUCTOR:**

Peter Rabinowitz MD MPH

Office: Rosling Building 262

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**OFFICE HOURS:** By appointment (contact Vickie Ramirez [ramirezv@uw.edu](mailto:ramirezv@uw.edu))

### **Course Description:**

This course is a weekly seminar for in-depth exploration of a wide range of topics related to the One Health approach to the interconnected health of humans, animals, and their shared environment. It provides some general background regarding the occupational health of workers in close contact with animals in a number of different settings including agriculture, laboratory research, and veterinary medical care, with particular focus on zoonotic infectious diseases transmitted between humans and animals. It emphasizes critical readings of the scientific evidence regarding these issues and the COHERE guidelines for One Health studies.

The course is designed to meet the needs of students in the One Health certificate program as well as those in the Occupational Health at the Human Animal Interface (OHAI) research training program. It is open to other students with permission of the instructor.

The Autumn quarter 2021 seminar will focus on the unique involvement of UW in the USAID DEEP VZN and USAID STOP SPILLOVER projects.

The seminar will use a “One Health” paradigm that integrates human, animal, and environmental health to explore One Health issues in a number of geographical areas and settings. We will discuss the published literature about viral spillover in high risk interfaces and the work of the PREDICT project and other efforts to understand and prevent such spillover.

An emphasis will be placed on an integrated approach to human health, animal health, and environmental aspects of zoonotic diseases and other One Health problems.

The seminar will stress the skills of critical reading and systematic review of the scientific literature, oral and written communication of health risks, and formulation of research hypotheses and study designs. Students will lead or play a major part in most of the sessions in a given quarter. This will provide students with an opportunity to develop and demonstrate skills in literature review, presentation of materials, interdisciplinary teamwork, problem solving, practice planning, evidence based policy development, and research planning.

In Autumn 2021, students will review pertinent studies and other scientific literature resources to contribute to the effort to review the literature about viral spillover risk. Each student in Autumn 2021 seminar will review, summarize, and present at least 3 publications.

Canvas and email are the standard medium used for communication regarding this course. Students are responsible for ensuring that their correct email address is on file, and for informing the instructor if unable to use either electronic medium.

### **Course Learning Objectives (for the ENV H 586 Series)**

Each quarter of the seminar will cover a number of the overall learning objectives. At the end of the series, the student will be able to:

1. Apply the COHERE (Checklist for One Health Epidemiological Reporting of Evidence) guidelines to determine whether research meets the definition of a One Health study and, if so, to evaluate the quality of the One Health methodology used.
2. Research papers related to viral disease spillover, and present the background, methods, and results of each paper by professionally leading a portion of a seminar session on that topic.
3. Use electronic resources to systematically research scientific literature and present the results of such review in a systematic fashion.
4. Identify the major aspects of selected zoonotic diseases, including clinical presentation across species, treatment modalities, and prevention/management roles for different members of One Health teams.
5. Discuss strategies for preventing, controlling or managing occupational health hazards at the human animal interface using an interdisciplinary One Health team model including exposure control and surveillance.
6. Effectively communicate information about scientific aspects of zoonotic diseases, both orally and in written form.
7. Understand how socioeconomic and other social factors, including poverty, immigration, literacy, urbanization and racism, can be addressed using a One Health approach.

### **Texts and References:**

In Autumn Quarter 2021, the principal texts will be the assigned papers that will be placed on Canvas.

A reference text is:

Human-Animal Medicine: Clinical Approaches to Zoonoses, Toxicants and Other Shared Health Risks by Peter M. Rabinowitz and Lisa A. Conti. Saunders: Elsevier.

This text book will be available at the Center for One Health (COHR) suite, as well as for purchase online from the publisher. We will mostly be using Chapter 9 (zoonoses) [Chapter 9 Zoonoses.pdf](#)

All students are expected to be able to access class materials via email and the course Canvas website. If this presents a problem for you let the instructor know immediately.

**Course Requirements:**

1. Seminar: Each student will play a principal role in reviewing, preparing and summarizing at least 3 papers related to viral spillover.
2. Class Participation: Although students will not be graded on attendance, active engagement in classroom discussions is required to meet many of the learning objectives for the course. Students should come to the seminar having done the expected preparation (see below), and participate actively in the seminar discussion including critique of the presented papers.

**Seminar Schedule: ENVH 586- Fall 2021**

<b>Week #</b>	<b>Date</b>	<b>Seminar Leader</b>	<b>Topic</b>
<b>1</b>	<b>9/30/21</b>	<b>Rabinowitz</b>	<b>Intro to Seminar, Course Structure, One Health, COHERE guidelines</b>
<b>2</b>	<b>10/7/20</b>	students	3 papers
<b>3</b>	<b>10/14/20</b>	students	3 papers
<b>4</b>	<b>10/21/20</b>	students	3 papers
<b>5</b>	<b>10/28/20</b>	students	3 papers
<b>6</b>	<b>11/4/20</b>		Countries 1 and 2: Peru and Vietnam
<b>7</b>	<b>11/11/20</b>	<b>No Class</b>	<b>Veterans Day</b>
<b>8</b>	<b>11/18/20</b>		Countries 3 and 4: Thailand and Kenya
<b>9</b>	<b>11/25/20</b>	<b>No class</b>	<b>THANKSGIVING</b>
<b>10</b>	<b>12/2/20</b>		Countries 5 and 6: Senegal and Bangladesh
<b>11</b>	<b>12/9/20</b>	Rabinowitz, others	<b>Wrap up- DEEP VZN</b>

**Seminar Structure (ENV H 586 Autumn 2020)**

1. Before the Session:

If you are one of the assigned seminar leaders :

- Prepare your paper summary
- Prepare a 20 minute presentation about the paper

For all other seminar sessions:

- Read all the papers assigned for the session (see Modules)
- Come to class prepared to discuss the papers

1. During the Session:

First third (1:30-2:00):

- The seminar group will discuss first paper.

Second third (2:00-2:30)

- The seminar group will discuss second paper.

2:30-2:40 There will be a 10-minute break

Final third (2:40-3:10):

- The seminar group will discuss third paper.

4:10-4:20 Wrap up- entry of findings into database, etc.

**Basis for Grading:**

This course is offered on a graded (A section) basis.

**Seminar leadership**

Judged on quality of: student preparation; presentation materials; presentation style; and evidence of professionalism and interdisciplinary cooperation, if relevant.

Rubric for Seminar Leadership

	Poor	Fair	Good	Excellent	Exceptional
Provides good overview of need that the study proposes to fill	1	2	3	4	5
Provides overview of background for specific study (location, etc.)	1	2	3	4	5
Provides good overview of study, including study setting and population, methodology	1	2	3	4	5

used, results and generalizability

Identifies strengths and weaknesses of study	1	2	3	4	5
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Leads discussion based on student questions	1	2	3	4	5
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Description of ratings:

1. Exceptional; Addresses salient points in this section. Insightful presentation/analysis.
2. Excellent; Addresses most of the important points with occasional oversights. Thorough presentation/analysis.
3. Good; Moderate degree of omission of key information. Good presentation/analysis
4. Fair; Frequent omission of key information. Multiple inaccuracies noted. Unprepared presentation/limited analysis.
5. Poor; Does not convey relevant information; did not provide interpretation of data; unprepared presentation

**Writeup of presentation: Completion of short summary of paper, and entry of data into database**

Assignment of numeric grades will use the UW Department of Health Services grading guidelines for graduate students. More details are available at the course website. <http://depts.washington.edu/hserv/grading>

3.9-4.0 Excellent and exceptional work.....for a graduate [or professional] student

3.7-3.8 Strong work

3.4-3.6 Competent and sound work (default category)

3.2-3.3 Adequate work, although some weaknesses are evident

2.9-3.1 Borderline work

2.7-2.8 Deficient but acceptable work

<2.7 Unacceptable work

**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 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). (<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/) [\(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](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/) [\(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/).

### **Academic Integrity**

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/) [\(http://sph.washington.edu/students/academicintegrity/\)](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.

### **Classroom Climate**

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. Victoria Gardner, Assistant Dean for Equity, Diversity and Inclusion ([vg@uw.edu](mailto:vg@uw.edu) (<mailto:vg@uw.edu>)) is also a resource for students with classroom climate concerns.

## **COVID-RELATED EXPECTATIONS**

Per UW policy, this class will be conducted in person. Therefore, unless you meet the criteria for an accommodation from Disability Resources for Students (DRS) or a special arrangement approved by the SPH Office of the Dean that allows you to take the course remotely [\[see student communications here\]](https://sph.washington.edu/sites/default/files/2021-08/UWSPH_RTC_Student-Email.pdf) [\(https://sph.washington.edu/sites/default/files/2021-08/UWSPH\\_RTC\\_Student-Email.pdf\)](https://sph.washington.edu/sites/default/files/2021-08/UWSPH_RTC_Student-Email.pdf) you should only register for this class if you can attend in-person.






- Please contact UW Disability Resources for Students (DRS) directly if you feel you may be eligible for an accommodation based on your status as an immunocompromised individual or based on other diagnosed











- physical or mental health conditions that might prevent you from being able to take classes in-person.
- If you are a student enrolled in a program in SPH, and you are either living with an individual who is immunocompromised, OR you are unable to obtain a visa to travel to the US, you may be eligible for a “special arrangement” that will allow you to take this course remotely. Requests for special arrangements to take the class remotely should have been submitted to and approved by the Students and Academic Services team in the Office of the Dean before the beginning of the quarter. If you have questions about this type of arrangement, please reach out to Student and Academic Services by email at [sphas@uw.edu \(mailto:sphas@uw.edu\)](mailto:sphas@uw.edu).

All UW students are expected to complete their [vaccine attestation \(https://www.washington.edu/coronavirus/vaccination-requirement/\)](https://www.washington.edu/coronavirus/vaccination-requirement/) before arriving on campus and to follow the campus-wide face-covering policy at all times. You are expected to follow state, local, and UW COVID-19 policies and recommendations. If you feel ill or exhibit possible COVID symptoms, you should not come to class. If you need to temporarily quarantine or isolate per CDC guidance and/or [campus policy \(https://www.washington.edu/coronavirus/2021/08/31/autumn-quarter-health-and-safety-measures-message-to-uw-personnel/\)](https://www.washington.edu/coronavirus/2021/08/31/autumn-quarter-health-and-safety-measures-message-to-uw-personnel/), you are responsible for notifying your instructors as soon as possible by email. **If you receive a positive COVID-19 test result, you must report to campus Environmental Health & Safety (EH&S) by emailing [covidehc@uw.edu \(mailto:covidehc@uw.edu\)](mailto:covidehc@uw.edu) or calling 206-626-3344.**

**No food or drinks are allowed in the classroom.**

## Course Summary:

Date	Details	Due
Fri Dec 11, 2020	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704528">COHERE review slide presentation (https://canvas.uw.edu/courses/1478689/assignments/6704528)</a>	due by 11:59pm
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704541">Zoonotic Disease Presentation (https://canvas.uw.edu/courses/1478689/assignments/6704541)</a>	due by 11:59pm
Fri Dec 18, 2020	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704529">COHERE written summary (https://canvas.uw.edu/courses/1478689/assignments/6704529)</a>	due by 11:59pm
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704542">Zoonotic Disease Summary-written (https://canvas.uw.edu/courses/1478689/assignments/6704542)</a>	due by 11:59pm
Thu Sep 30, 2021	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704540">Preparation for Session 1 (https://canvas.uw.edu/courses/1478689/assignments/6704540)</a>	due by 1:30pm

Date	Details	Due
Thu Oct 7, 2021	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704533">Materials for session 2</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704533">https://canvas.uw.edu/courses/1478689/assignments/6704533</a> )	due by 1:30pm
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704530">Materials for Session 1</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704530">https://canvas.uw.edu/courses/1478689/assignments/6704530</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704531">Materials for Session 10</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704531">https://canvas.uw.edu/courses/1478689/assignments/6704531</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704532">Materials for Session 11</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704532">https://canvas.uw.edu/courses/1478689/assignments/6704532</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704534">Materials for Session 3</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704534">https://canvas.uw.edu/courses/1478689/assignments/6704534</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704535">Materials for Session 4</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704535">https://canvas.uw.edu/courses/1478689/assignments/6704535</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704536">Materials for Session 5</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704536">https://canvas.uw.edu/courses/1478689/assignments/6704536</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704537">Materials for Session 6</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704537">https://canvas.uw.edu/courses/1478689/assignments/6704537</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704538">Materials for Session 7</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704538">https://canvas.uw.edu/courses/1478689/assignments/6704538</a> )	
	 <a href="https://canvas.uw.edu/courses/1478689/assignments/6704539">Materials for Session 8</a> ( <a href="https://canvas.uw.edu/courses/1478689/assignments/6704539">https://canvas.uw.edu/courses/1478689/assignments/6704539</a> )	