

ENV H 443 A Au 21: Housing And Health

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W ENVIRONMENTAL & OCCUPATIONAL HEALTH SCIENCES UNIVERSITY of WASHINGTON | SCHOOL OF PUBLIC HEALTH

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ENV H 443A: Housing and Health

Quarter: Autumn 2021

Credits & Grading: 3 credits, graded

Time: Tuesdays and Thursdays, 8:30 to 9:50 AM

Location: This class has been authorized to be taught virtually. The course will be conducted to run synchronously at your scheduled class time via Zoom.

Zoom: <https://washington.zoom.us/j/92260209979>  [_ \(https://washington.zoom.us/j/92260209979\)](https://washington.zoom.us/j/92260209979)

Please contact me if you have any questions or concerns.  [_ \(https://washington.zoom.us/j/98500802687\)](https://washington.zoom.us/j/98500802687)

Instructors:

Chuck Treser, Principal Lecturer Emeritus

Office: Working from home

Email: ctreser@uw.edu (<mailto:ctreser@uw.edu>)

Phone: 206-369-3408

[_ \(mailto:tmb@uw.edu\)](mailto:tmb@uw.edu) **Office Hours:** MWF, 8:30 - 10:00 AM via Zoom.

Join URL: <https://washington.zoom.us/j/97162267526> 

[_ \(https://washington.zoom.us/j/97162267526\)](https://washington.zoom.us/j/97162267526)

Other times by appointment (please email me to schedule a Zoom meeting at a mutually convenient time).



Aileen Gagney, Affiliate Instructor

Office: Working from home

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[_ \(mailto:tmb@uw.edu\)](mailto:tmb@uw.edu) **Office Hours:** By appointment



Course Description:

This course explores healthy and safe homes as a crucial element in public health. We will examine both the housing unit and the physical and social context in which it is located. We will also review federal, state and local approaches to housing-related programs under the banner of healthy homes. Students completing this course will understand the relationship between housing and human health and well-being.

IMPORTANT NOTE: These Zoom class sessions will be recorded. The recording will capture the presenter's audio, video and computer screen. Student audio and video will be recorded if they share their computer audio and video during the recorded session. The recordings will only be accessible to students enrolled in the course to review materials. These recordings will not be shared with or accessible to the public.

The University and Zoom have FERPA-compliant agreements in place to protect the security and privacy of UW Zoom accounts. [.edu \(mailto:ctreser@uw.edu\)](mailto:ctreser@uw.edu).

Students are strongly encouraged to have their video cameras turned on during the class as this aids both the instructors and your fellow students in ensuring that the communication is a two way process. However, you should feel free to turn the camera off briefly when needed. Students who do not wish to be recorded should:

- Change their Zoom screen name to hide any personal identifying information like their name or UW Net ID; and
- Not share their computer audio or video during their Zoom sessions

MOST IMPORTANT if you have any questions or concerns (about anything) please contact me.

Course Objectives: It is intended that at the completion of this course, each student should be able to:

1. discuss the major health impacts that have been linked to problems with housing design, construction, use and maintenance;
2. discuss the current state of housing research into housing conditions, national trends and common problems related to human health and safety;
3. apply the appropriate codes and standards to address housing conditions that constitute a health or safety hazard;
4. describe the seven principles of healthier homes and how their use can reduce health and safety hazards in the home; and,
5. describe the major attributes of a successful healthy homes program, including the societal, social, racial, economic, equity and mental health dimensions.

Course Requirements:

1. **Exercises & Examinations (380 Points).** For each module there will be a class exercise or quiz worth a combined total of 180 points. Some of these will involve group work, while others will be done independently. There will also be two examinations -- both will be administered using the Canvas quiz function and be worth 100 points. As such they are to be completed outside of the classroom and are open book, open note tests; but NOT a group exercise!

2. **Class Project/Term Paper (120 Points).**

The class will be divided into several teams that will develop a plan to implement a healthy housing program in a selected neighborhood.

WHY GROUPS?: Healthy housing is a very complex problem and it is multifaceted. Depending on a person's personal lens people see differing issues and problems. There are the physical attributes of the house such as building integrity, architectural layout, electrical, plumbing and HVAC systems, and occupancy. There are also the characteristics of neighborhood in which the house is situated. But, there are also societal, social, racial, economic, equity and mental health dimensions as well. In this course we encourage you to look at all of the various dimensions of housing. Each student brings to the subject their own unique knowledge and experience. By working in groups you get to share the wealth of information and perspectives of your fellow group members which will hopefully make your final project more robust and meaningful to you.

Depending on where we are with the Covid-19 illness in Seattle during Autumn quarter, it may be necessary for the group work to be done virtually using the Canvas group functions and/or to adhere to social distancing procedures and the use of PPE if meeting in person.

The class project will be worth 120 points, and will involve the following steps or elements.

- A. Identify a neighborhood in which to implement a healthy housing program. For this project you may choose any neighborhood where you feel that the residents would benefit from a healthy housing program. (20 points)
 - Identify the geographic boundaries of your neighborhood
 - Discuss the demographic, census data and available housing information that you used to pick your neighborhood, and explain why you considered these important to your selection of your target area.
 - Justify your selection: i.e., what are the major human health issues or concerns that led you to choose this neighborhood for your project.
 - Map it and, if possible, take pictures of representative housing and housing conditions, if you can do this safely
- B. Prepare a final report (which include two components -- an oral presentation and a written term paper) in which you describe how a healthy housing program could be developed and implemented for this neighborhood? What are the issues with which you will have to contend? Explicitly

enumerate these in your report and explain how you think that they could be dealt with. (100 Points)

Some of the elements to be considered and documented in your plan are:

- Need
- Community/Neighborhood characteristics
 - Age and type of housing construction
 - Physical Topography
 - Economic characteristics and distribution
 - Ethnic/racial composition
 - Educational levels
 - Age distribution of the population
 - Etc.
- Government agencies already involved or responsible
- Community organization(s)
- Resources, such as:
 - Agency or agencies to be involved.
 1. Technical competence?
 2. Legislative mandate?
 3. Funding ?
 - Citizen groups
 - Legislative basis
 - Source(s) of funding

Each paper should be typed with appropriate end notes, bibliography including all references used. The information you present and your bibliography should reflect your ability to search the library and obtain relevant information from many sources, including scientific/ professional journals, trade journals, and government reports. Use of only one or two references is not considered adequate or acceptable. This is an **exercise in report writing** typical of the type of reports which an environmental health practitioner is expected to be able to routinely produce.

Format: Each paper is to be submitted electronically using Canvas. Make sure all of your names, the class, the date and the title of your report are included on the title page and follow this with the text (Introduction, methods, project description and dimensions, conclusions and recommendations, bibliography, and appendices. Include page numbers after the first page. You should **not** use type larger than 12 point, triple space, or wide margins.

Evaluation of Papers: Your paper will be evaluated on the following points:

- Data collection (factors considered and weighed), organization, analysis, conclusions and synthesis;
- Appropriateness of your recommendations; and,

- Organization, general composition, grammar, spelling, and the correct use of citations, bibliography and end notes.

3. Class Participation. It is expected that all students will attend each Zoom class session, unless excused. Students should have read and thought about the assigned readings for each class session before the class session. The class sessions will be a combination of lectures, discussions and exercises in which the class will work together to examine a particular aspect of the course content, solve a problem or conduct an activity, so advanced preparation is necessary.

Absences due to medical or other emergencies or University conflicts will not negatively affect your grade, although any assignments missed due to such absences will need to be made up or an acceptable substitute arranged with the instructor.

4. Grade. Your course grade will be based on the total number of points you accumulate during the quarter, divided by 500, the total points possible. Thus the grades will be weighted as:

- 36% - Class Exercises
- 40% - Examinations
- 24% - Group Projects

Grades will be assigned using the traditional grading rubric converting percentages to the 4.0 grading scale.

- A = 90% or better (3.5 - 4.0)
- B = 80-89% (2.7 - 3.4)
- C = 70-79% (1.7 - 2.6)
- D = 60-69% (0.7 - 1.6)
- E = < 60% (0.0)

Course Policies

- 1. Land Acknowledgement:** "The University of Washington acknowledges the Coast Salish people of this land, the land which touches the shared waters of all tribes and bands within the Duwamish, Suquamish, Tulalip and Muckleshoot nations."
- 2. UW Access and Accommodations:** Your experience in this class is important to us, and it is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law. If you experience barriers based on a disability or temporary health condition, please seek a meeting with Disability Resources for Students (DRS) to discuss and address them. If you have already established accommodations with DRS, please communicate your approved accommodations to your instructor at your earliest convenience so we can discuss your needs in this course. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an inter-active process between you, your instructor(s) and DRS. If you have not yet established services through DRS, but have a temporary health condition or

permanent disability that requires accommodations (this can 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 or visit: <http://disability.uw.edu> [↗](http://disability.uw.edu) [.\(http://disability.uw.edu\)](http://disability.uw.edu).

2. **UW 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. 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.
3. **Statement on Inclusion and Diversity:** Diverse backgrounds, embodiments and experiences are essential to the critical thinking endeavor at the heart of University education. In SPH, we are expected:
 - o To respect individual differences, which may include, but are not limited to, age, cultural background, disability, ethnicity, family status, gender identity and expression, citizenship and immigration status, national origin, race, religion, sex, sexual orientation, socioeconomic status and veteran status.
 - o To engage respectfully in the discussion of diverse worldviews and ideologies embedded in course readings, presentations and artifacts, including those course materials that are at odds with personal beliefs and values.
4. **Religious Accommodations Policy:** 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/) [.\(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](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/) [_\(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/).” [↗](https://portal.deohs.washington.edu/syllabus-statements) [_\(https://portal.deohs.washington.edu/syllabus-statements\)](https://portal.deohs.washington.edu/syllabus-statements)

Course Materials:

Textbooks: All of the for this course are in the public domain and hence can be downloaded as PDF documents by you at **no** cost.

1. Centers for Disease Control and Prevention and U.S. Department of Housing and Urban Development. [Healthy Housing Reference Manual](#). Atlanta: US Department of Health and Human Services; 2006.

(<https://www.cdc.gov/nceh/publications/books/housing/housing.htm> [↗]

(<https://www.cdc.gov/nceh/publications/books/housing/housing.htm>.)

2. National Healthy Housing Training Center & Network, [Essentials of Healthy Housing Training Manual](#), National Center for Healthy Housing, 2010.

(Link removed by HUD)

3. National Committee on Housing and Health. [National Healthy Housing Standard](#), NCEH/APHA, May 2014.

(<http://www.nchh.org/Policy/NationalHealthyHousingStandard.aspx> [↗]

(<http://www.nchh.org/Policy/NationalHealthyHousingStandard.aspx>.)

4. CDC/HID, [Healthy Housing Inspection Manual](#), U.S. Department of Health & Human Services, Atlanta, 2008.

(<https://www.cdc.gov/nceh/publications/books/inspectionmanual/default.htm> [↗]

(<https://www.cdc.gov/nceh/publications/books/inspectionmanual/default.htm>.)

Handouts: Selected handout materials for the course will be made available to download from the course website.

Reading Assignments: Most of the assignment for the course are listed on the Class Schedule. Additional assignments will be made in class.

Other Reading Materials:



1. A comprehensive list of references provided in the Healthy Housing Training Manual.
2. In the University libraries there are a number of books and scientific journals related to housing, urban planning, and the link between the environment and human health, including:
 - US Department of Health and Human Services, *The Surgeon General's Call to Action to Promote Healthy Homes*, US Department of Health and Human Services, Office of the Surgeon General, 2009.
 - Frumkin H, Frank L, Jackson R. *Urban Sprawl and Public Health: Designing, Planning and Building for Healthy Communities*, Island Press, 2004.

Course Syllabus: This website constitutes the official syllabus for the course. The schedule of classes and assignments is found using the "modules" link on this Canvas LMS. A hard copy of the [class schedule](#) is available at the links indicated. However, please be aware that there may be changes and updates as we progress through the course. These will be noted in this on-line syllabus, but will not be reflected in the printed version.

Course Summary:






Date	Details	Due
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Date	Details	Due
Thu Nov 12, 2020	 Ex. 8 - Ventilation Problems https://canvas.uw.edu/courses/1478663/assignments/6598373	due by 11:59pm
Thu Nov 19, 2020	 Ex. 9 - Home Safety https://canvas.uw.edu/courses/1478663/assignments/6598374	due by 11:59pm
Mon Nov 23, 2020	 Group Project Assignment A https://canvas.uw.edu/courses/1478663/assignments/6598377	due by 11:59pm
Thu Dec 10, 2020	 Ex. 10 - Project Evaluation II https://canvas.uw.edu/courses/1478663/assignments/6598365	due by 11:59pm
Fri Dec 11, 2020	 Final Exam https://canvas.uw.edu/courses/1478663/assignments/6598362	due by 11:59pm
Tue Dec 15, 2020	 Ex. 10 - Project Evaluation III https://canvas.uw.edu/courses/1478663/assignments/6598366	due by 11:59pm
Wed Dec 16, 2020	 Group Project Assignment B https://canvas.uw.edu/courses/1478663/assignments/6598378	due by 11:59pm
Fri Dec 18, 2020	 Group Project Assignment C https://canvas.uw.edu/courses/1478663/assignments/6598379	due by 11:59pm
Fri Oct 1, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347747&include_contexts=course_1478663	8:30am to 10am
Sun Oct 3, 2021	 Pre-course Survey https://canvas.uw.edu/courses/1478663/assignments/6725383	due by 11:59pm
Mon Oct 4, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347748&include_contexts=course_1478663	8:30am to 10am
Wed Oct 6, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347749&include_contexts=course_1478663	8:30am to 10am
	 Ex. 1 - Connections https://canvas.uw.edu/courses/1478663/assignments/6598367	due by 11:59pm

Date	Details	Due
Fri Oct 8, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347750&include_contexts=course_1478663	8:30am to 10am
Mon Oct 11, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347751&include_contexts=course_1478663	8:30am to 10am
Tue Oct 12, 2021	 Ex. 2 - Housing Construction https://canvas.uw.edu/courses/1478663/assignments/6598368	due by 10am
Wed Oct 13, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347752&include_contexts=course_1478663	8:30am to 10am
Fri Oct 15, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347753&include_contexts=course_1478663	8:30am to 10am
Mon Oct 18, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347754&include_contexts=course_1478663	8:30am to 10am
	 Ex. 3. Housing Information https://canvas.uw.edu/courses/1478663/assignments/6598363	due by 11:59pm
Wed Oct 20, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347755&include_contexts=course_1478663	8:30am to 10am
Fri Oct 22, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347756&include_contexts=course_1478663	8:30am to 10am
Mon Oct 25, 2021	 ENV H 443 Office Hours https://canvas.uw.edu/calendar?event_id=2347757&include_contexts=course_1478663	8:30am to 10am
	 Ex. 4. Housing Systems https://canvas.uw.edu/courses/1478663/assignments/6720592	due by 8:30am
Tue Oct 26, 2021	 Ex. 5 - Interventions https://canvas.uw.edu/courses/1478663/assignments/6598370	due by 11:59pm

Date	Details	Due
Wed Oct 27, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347758&include_contexts=course_1478663)	8:30am to 10am
Fri Oct 29, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347759&include_contexts=course_1478663)	8:30am to 10am
Mon Nov 1, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347760&include_contexts=course_1478663)	8:30am to 10am
Wed Nov 3, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347761&include_contexts=course_1478663)	8:30am to 10am
Thu Nov 4, 2021	 Ex 6 - Moisture Problems (https://canvas.uw.edu/courses/1478663/assignments/6811079)	due by 11:59pm
Fri Nov 5, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347762&include_contexts=course_1478663)	8:30am to 10am
	 Midterm Exam (https://canvas.uw.edu/courses/1478663/assignments/6598361)	due by 11:59pm
Mon Nov 8, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347763&include_contexts=course_1478663)	8:30am to 10am
Wed Nov 10, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347764&include_contexts=course_1478663)	8:30am to 10am
Fri Nov 12, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347765&include_contexts=course_1478663)	8:30am to 10am
	 Ex 7 - Pest Problems (https://canvas.uw.edu/courses/1478663/assignments/6818269)	due by 11:59pm

Date	Details	Due
Mon Nov 15, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347766&include_contexts=course_1478663)	8:30am to 10am
Wed Nov 17, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347767&include_contexts=course_1478663)	8:30am to 10am
Fri Nov 19, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347768&include_contexts=course_1478663)	8:30am to 10am
Mon Nov 22, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347769&include_contexts=course_1478663)	8:30am to 10am
Wed Nov 24, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347770&include_contexts=course_1478663)	8:30am to 10am
Fri Nov 26, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347771&include_contexts=course_1478663)	8:30am to 10am
Mon Nov 29, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347772&include_contexts=course_1478663)	8:30am to 10am
Wed Dec 1, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347773&include_contexts=course_1478663)	8:30am to 10am
Fri Dec 3, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347774&include_contexts=course_1478663)	8:30am to 10am
Mon Dec 6, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347775&include_contexts=course_1478663)	8:30am to 10am
Wed Dec 8, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347776&include_contexts=course_1478663)	8:30am to 10am

Date	Details	Due
Fri Dec 10, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347777&include_contexts=course_1478663)	8:30am to 10am
Mon Dec 13, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347778&include_contexts=course_1478663)	8:30am to 10am
Wed Dec 15, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347779&include_contexts=course_1478663)	8:30am to 10am
Fri Dec 17, 2021	 ENV H 443 Office Hours (https://canvas.uw.edu/calendar?event_id=2347780&include_contexts=course_1478663)	8:30am to 10am
	 Ex. 10 - Project Evaluation I (https://canvas.uw.edu/courses/1478663/assignments/6598364)	due by 11:59pm