ENVH 311: Introduction to Environmental Health
Fall Quarter 2019
Course Syllabus

Course Description
This course explores the relationship people have with their environment, the risk management choices made, and the resulting associations that affect health and physical well-being for the individual, communities, and susceptible populations. The field of Environmental Public Health (EPH) is a professional, interdisciplinary field focused on the science and practice of preventing injury and illness from exposures to hazards in our environments.

ENVH 311 is designed as a survey course and is intended to introduce students to foundational and technical concepts in the field of EPH. Primarily, students will learn how a variety of environmental factors impact health outcomes, the current control measures on preventing or minimizing the health effects from the negative environmental impacts, and where to access additional information to make a difference at the individual, community or higher level. The course is designed to acquaint the student with the scientific and technical foundations of the field, and examines both practice and research contributions to understanding and controlling environmental hazards. This course is also intended to be a survey course, meaning that everyone is touched by EPH principles and topical areas of concern every day; we all eat, drink, produce waste, and breathe air each day. This course delivers important information and resources for the students' own health and wellness advocacy as they move out beyond this institution.

Course Meeting Times and Location
10:30 - 11:20 a.m.
Monday, Wednesday & Friday
Room T-435 Health Sciences Building

Course Instructor
Tania Busch Isaksen, Senior Lecturer
Department of Environmental & Occupational Health Sciences (DEOHS)
ENV H 311: Introduction to Environmental Health  
Fall Quarter 2019  
Course Syllabus

Office: F-561B Health Sciences Center  
Phone: (206) 685-4919 -- during office hours only  
E-Mail: tania@uw.edu, (Best way to contact)  
Office Hours: 11:30 a.m.-12:30 p.m., Mon., Wed., and Fri.; other times by appointment.

Graduate Teaching Assistants
Kaitlyn Kelly  
E-mail: kkelly2@uw.edu  
Office: E-179F Health Sciences Center  
Office Hours: By appointment only

Frank Ryou  
E-mail: hryou@uw.edu  
Office: E-179F Health Sciences Center  
Office Hours: By appointment only

Course Learning Objectives

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

1. Describe and illustrate, through case example(s), ways in which environmental factors in community, occupational and residential settings impact health;
2. List the major agencies and organizations involved in environmental health protection and explain their basic responsibilities, programs and problems;
3. Explain the pertinent scientific principles associated with the major environmental health program areas;
4. Explain and illustrate, through case example(s), how factors, such as community perceptions, public health law, traditions, socioeconomic conditions, politics and interpersonal communications, may influence the practice of environmental health;
5. Describe the benefits and limitations of the various methodologies (such as regulation, education, impact statements and public funding) through which society attempts to minimize negative environmental health impacts;
6. Examine personal contributions to environmental degradation and their potential health consequences; and
7. Analyze at least one environmental health topic for its impact on health and propose solutions based on what is known about the challenges/barriers.

Course Requirements

1. Individual Assignments: Students are expected to come to class having read and prepared for the day. Questions and comments on the subject matter are encouraged. Most class sessions will include two reading-related questions (1 pt each) to be answered BEFORE class starts using Canvas’ quiz function (~50 pts total).

Additionally, throughout the quarter, several self-assessment and module synthesis assignments will be used to supplement the student’s self-awareness on a particular topic AND to assess comprehension at the end of a module/case. These assignments
will be listed on the Canvas website in each applicable module/case, as well as introduced and discussed during class (~50 pts total).

2. **Group Project/Final Examination:** During the second week of the course, the class will be divided into groups. Each group will analyze an environmental health issue or problem that is currently topical and/or controversial. Besides learning about a particular environmental health issue, another purpose of the group project is to gain experience working together effectively as a part of a team. While group work can be frustrating, it has become increasingly important in both private organizations and public agencies that employees develop and maintain team-building and group communication skills. Additional details are contained on the *Group Project Expectations for Paper and Presentation* page of the course’s Canvas website.

The grade from your group project will be comprised of 5 different components, totaling 100 points:

1. News Article Posting (10 pts)
2. Learning Objective Draft (10 pts)
3. Final Learning Objective (20 pts)
4. Group paper (30 pts)
5. Group presentation (30 pts)

Your grade may also be adjusted based on peer evaluations. See the *Group Course Project/Final Examination*, on page 7, for more detail.

3. **Examinations:** There will be two progress assessment tests (100 pts each) -- one at approximately the halfway mark, and the second at the end of the quarter. The second test will be cumulative only in the sense that the basic principles and concepts learned in the early portions of the course are applicable to the problems examined in the later portions.

Both exams will consist of 50 multiple-choice questions (2 pts each). They will be delivered online through Canvas. They will open after class on their respective Friday and close at 11:59 pm, Sunday. Each exam can only be taken once, and will be time-limited to 60 minutes (continuous, no stop-restart option). **Just like in a classroom, once you start the exam, you must finish it in its entirety within the next 60 minutes.** Make sure you start your exam before 10:58 pm on Sunday, as the exam window-of-opportunity will close at 11:59 pm.

- Progress Assessment Test #1: Available **Friday, Oct. 25th (11:30 am)** – Closes **Sunday, Oct 27th (11:59 pm)**
- Progress Assessment Test #2: Available **Friday, Dec 6th (11:30 am)** – Closes **Sunday, Dec 7th (11:59 pm)**
4. **Extra Credit Points**: There will be a couple of opportunities for students to earn extra credit points.

   **PollEverywhere**: At some point during each lecture, a slide will be shown with a secret code word/phrase. To receive extra credit points (10 max.) you will need to use PollEverywhere to correctly identify the code word for each class lesson. One point will be awarded for correctly identifying 60% (or 17 sessions) of the 29 possible class sessions; two points will be awarded for correctly identifying 64% (or 18 sessions), and so on to 10 points for correctly identifying all 29 code words/phrases. The instructor reserves the right to use other PollEverywhere surveys to track attendance.

   **Other**: There may be additional extra credit opportunities made available throughout the quarter.

**Course Materials**

1. **Textbooks (optional to purchase):**
   - Nadakavukaren, Anne, Our Global Environment: A Health Perspective, 7th Ed., Waveland Press, Prospect Heights, Illinois, 2011. (Relevant sections will be posted on Canvas, while the full text is also available via Amazon as an e-book for a variety of different digital devices [here](#).)
   - Frumkin, H. (2016). Environmental health: From global to local (Third ed.). San Francisco, CA: Jossey-Bass, A Wiley Brand. [This text is found online through UW libraries. *It is an E-book and is found FREE* [here](#) OR look it up via UW online libraries system.]

2. **Required Readings**: The materials in the above textbooks will be supplemented by a series of readings. These readings are designed to enrich your learning experience by providing increased depth in a topic or by presenting an example that illustrates the principles covered in the text and lectures. All of these readings are available as PDF files that can be viewed on Canvas or downloaded to your computer by following the links provided on the class’ Canvas website for each lesson module.

3. **Supplementary (Optional) Readings**: The course modules also list a number of journal articles, reports, and other materials that expand upon or illuminate specific aspects of the topics covered in this course. Most of these are also available online. In some cases, the suggested readings may be links to government or private websites. These links provide you with additional information on the topic of the lesson and an opportunity to explore the type and scope of information available from these various sources.

   There are a number of journals related to environmental health currently available. People wishing to stay abreast of this fast changing field should at least scan the journals most related to their interests every month. Some of the best of them (or at least the ones most directly related to this course) include:

   - *Environmental Health Perspectives*
Course Policies

1. **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. 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.

   **Notice**: The University has a license agreement with VeriCite, an educational tool that helps prevent or identify plagiarism from Internet resources. Your instructor may use the service in this class by requiring that assignments are submitted electronically to be checked by VeriCite. The VeriCite Report will indicate the amount of original text in your work and whether all material that you quoted, paraphrased, summarized, or used from another source is appropriately referenced.

2. **Access and Accommodation**: 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 or 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.
Additionally, 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. Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form.

3. **Anti-Racism Commitment:** The faculty of the School of Public Health commit to facilitating student learning that occurs in an inclusive, anti-racist environment. We view our courses and co-curricular activities as opportunities to demonstrate program-wide efforts to challenge systemic racism within a caring community. We also seek alliances with other individuals and organizations involved in combating all forms of social oppression. We acknowledge that programmatic transformation requires sustained effort and periodic self-reflection, thus, our movement forward on a continuum of anti-racism is a work in progress that requires feedback from all community members. We invite all members of our community to identify opportunities to improve our performance in this regard, including classroom interactions, faculty facilitation, and the institutional environment. You may offer feedback through your course instructor, faculty advisor, the program director, and/or anonymous comments in course evaluation forms.

4. **Written Assignments:** All written assignments, including the group project written report, must be typed and submitted electronically through Canvas or instructor’s email (specific to the assignment). Your written assignments will be graded on the substance of the content and on the effectiveness of its organization and presentation. Groups should see the instructor or one of the TAs if they have questions about making their PowerPoint slide, including graphics.

5. **Tests:** There will be no make-up examinations unless approved by the instructor in advance. If a test is missed because of an unexcused absence, it will not be rescheduled.

6. **Grading:** Your final grade will be calculated from the two course exams (200 pts), your group project (100 pts), individual assignments/participation points and any extra credit points (100+pts). A 4.0 scale will be calculated using the following conversion:

<table>
<thead>
<tr>
<th>%</th>
<th>GPA</th>
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<tbody>
<tr>
<td>≥ 90.5</td>
<td>4.0</td>
</tr>
<tr>
<td>≥ 89.4</td>
<td>3.9</td>
</tr>
<tr>
<td>≥ 88.3</td>
<td>3.8</td>
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<tr>
<td>≥ 87.2</td>
<td>3.7</td>
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<tr>
<td>≥ 86.1</td>
<td>3.6</td>
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<tr>
<td>≥ 85.0</td>
<td>3.5</td>
</tr>
<tr>
<td>≥ 83.9</td>
<td>3.4</td>
</tr>
<tr>
<td>≥ 82.8</td>
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<td>≥ 81.7</td>
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<td>3.1</td>
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<tr>
<td>≥ 76.2</td>
<td>2.7</td>
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<tr>
<td>≥ 75.1</td>
<td>2.6</td>
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<tr>
<td>≥ 74.0</td>
<td>2.5</td>
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<tr>
<td>≥ 72.9</td>
<td>2.4</td>
</tr>
<tr>
<td>≥ 71.8</td>
<td>2.3</td>
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<tr>
<td>≥ 70.7</td>
<td>2.2</td>
</tr>
<tr>
<td>≥ 69.6</td>
<td>2.1</td>
</tr>
<tr>
<td>≥ 68.5</td>
<td>2.0</td>
</tr>
</tbody>
</table>
≥ 63.4 = 1.0  ≥ 61.1 = 0.8
≥ 62.2 = 0.9  ≥ 60.0 = 0.7
Group Course Project/Final Examination

At the end of the second week, the class will be divided into groups of 6 or 7. Each group will analyze an environmental health issue or problem that is currently topical and/or controversial. The group course project has two components:

- The written report is due via Canvas by **12:00 pm on Monday, Dec 9th, 2019.**
- An electronic poster due to the graduate teaching assistant by **5:00 pm on Friday, Dec 6th, 2019**
- Each group will present their poster to the entire class on **Monday, Dec 9th, 2019 (8:30 – 10:20 am HSB T-625)**

OVERALL REQUIREMENTS

Sources: Information gathered by the group should come from peer-reviewed literature; government, NGO, and other websites; or the mainstream news media/press. A visit to a federal, state or local government agency (or attendance of a city or county council meeting, a regional planning council meeting, or a public hearing) that deals with your environmental health program or issue would also be helpful and is encouraged, but is not required.

REPORT REQUIREMENTS

The final group paper will be comprised of content written both individually and collectively. The paper shall be approximately 10-15 pages (excluding references; 1.5-spaced with 1” margins, 12 pt. font), and should include in-text citations (APA style) as well as a complete reference section or bibliography. It should be submitted by one group member via Canvas by **noon on Monday, Dec 9th.**

This paper will include 3 parts: Abstract, Body, and Discussion/Conclusion & Recommendations of the group.

Abstract - Provide a concise abstract defining: What is the problem, where is it a problem (geographical boundaries), and why is it a problem (you may use specific examples to illustrate your problem statement).

Body - The body shall be made up of content researched for each Learning Objective (LO) found below. Each member of the group will be solely responsible for one LO, and will submit a short summary paper (12pt font, min. 2 pages, 1.5 spacing) that covers the assigned learning objective’s research.

These LO’s are as follows:
1. Describe the hazard;
2. Describe the health outcome(s) or endpoint(s) associated with the hazard;
3. Describe the exposure to the hazard in a population;
4a. Describe susceptible populations and factors that mitigate their susceptibility to the hazard;
4b. **For groups with 7 people:** Explicitly consider the topic through an environmental justice and equity lens. How is susceptibility to the hazard, or development of associated health outcomes, influenced by racial/social injustice;

5. Describe the responsible environmental health management agencies/organizations (federal, state and local) AND their regulatory authority to prevent or control exposure to the hazard. Describe non-profits or other organizations that assist or play a significant role;

6. Present specific examples of control strategies used to prevent or control exposures to the hazard - either currently being used or that could be used (Note that LO#6 will be defining the agencies responsible and laws/regulations, so focus on examples only here); Discuss the political and legal ramifications of your specific examples (present examples; think about who is “for” and who is “against” and what their positions/arguments are; often will include stakeholder groups that are not responsible for management of the proposed strategies);

**Discussion/Conclusion & Recommendations of the group** - Provide a critical summary including recommendations from the group about how to prevent or minimize negative health impacts.

**Important Note:** The UW Odegaard Writing and Research Center is a good resource for help with writing, finding good sources for academic papers, proper citation, and avoiding plagiarism. If students are not confident in writing academic papers, please schedule an appointment with the Writing Center to discuss your individual paper. The class instructor and TAs are also available to answer questions. For more information about the Writing Center and writing resources, visit [http://depts.washington.edu/owrc/](http://depts.washington.edu/owrc/).

**ELECTRONIC POSTER/PRESENTATION REQUIREMENTS**

**Electronic Poster Requirements:** The posters will be presented to the class during the finals examination time slot for the course. In order to reduce waste, conserve resources, and save the students’ money, the poster presentation will consist of a single PowerPoint slide submitted electronically to (kkelly2@uw.edu) by **5:00PM Friday, Dec 6th** and include the following:

- The project title and date;
- The names of each of the group members;
- A concise statement of the problem or issue being investigated;
- A description of what is known about the hazard and health outcomes/endpoints;
- A description of the population and vulnerable sub-populations at risk (including any environmental justice/equity findings);
- A list of responsible regulatory agencies and an example of a control/intervention program;
- A discussion of the legal, political and social issues affecting the problem; and
- The results found and conclusions drawn by the group, including any recommendations.
A PowerPoint template will be available on the Canvas website for use in constructing group electronic posters.

**GROUP GRADING**

**Group Project Grade Adjustment Note:** A single grade will be assigned to each group. However, the grade for each member of the group may be adjusted based on a peer evaluation performed by each member of the group (assigned at the end of the quarter via Canvas). It is critically important to your grade that everyone (including yourself) complete the peer evaluation form -- failure to do so could negatively affect your grade in the course as your final grade for the project will be adjusted according to the grades submitted by your peers.

An individual's final grade on the group project may be adjusted as follows:

<table>
<thead>
<tr>
<th>Average peer-review score</th>
<th>Points deducted from final group grade (combined paper and presentation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 – 4.0</td>
<td>0% deduction</td>
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<tr>
<td>2.5 – 2.9</td>
<td>2% deduction</td>
</tr>
<tr>
<td>2.0 – 2.4</td>
<td>5% deduction</td>
</tr>
<tr>
<td>1.5 – 1.9</td>
<td>10% deduction</td>
</tr>
<tr>
<td>1.0 – 1.4</td>
<td>15% deduction</td>
</tr>
<tr>
<td>0.5 – 0.9</td>
<td>25% deduction</td>
</tr>
<tr>
<td>&lt; 0.5</td>
<td>NO points for the group project</td>
</tr>
</tbody>
</table>
ENVH 311 – Fall Quarter 2019  
Tentative Course Schedule

(**NOTE:** This schedule is still under construction and the list of lectures and assignments is subject to change.)

**IMPORTANT:** The reading assignments for each class session are listed on the course Canvas website in the module for each class day. Be sure that you have read the reading assignment before coming to class.

<table>
<thead>
<tr>
<th>No</th>
<th>Day</th>
<th>Date</th>
<th>Lesson Topic</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wed</td>
<td>9/25</td>
<td>Course Introduction</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>2</td>
<td>Fri</td>
<td>9/27</td>
<td>Population Dynamics &amp; Public Health</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>3</td>
<td>Mon</td>
<td>9/30</td>
<td>Environmental Public Health/Risk Assessment Framework</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>10/2</td>
<td>Toxicology</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>4</td>
<td>Fri</td>
<td>10/4</td>
<td>Epidemiology</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>5</td>
<td>Mon</td>
<td>10/7</td>
<td>Exposure Assessment &amp; Control</td>
<td>Frank Ryou, DEOHS</td>
</tr>
<tr>
<td>6</td>
<td>Wed</td>
<td>10/9</td>
<td>Group Work!</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>7</td>
<td>Fri</td>
<td>10/11</td>
<td>Water Resources</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>8</td>
<td>Mon</td>
<td>10/14</td>
<td>Drinking Water Quality</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>9</td>
<td>Wed</td>
<td>10/16</td>
<td>Case Wrap Up &amp; Group Work</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>10</td>
<td>Fri</td>
<td>10/18</td>
<td>Human Disease Transmission, prevention &amp; Control</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>11</td>
<td>Mon</td>
<td>10/21</td>
<td>Foodborne Illness/Outbreak investigation</td>
<td>Joe Graham, DOH</td>
</tr>
<tr>
<td>12</td>
<td>Wed</td>
<td>10/23</td>
<td>Food Protection &amp; Policy</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>13</td>
<td>Fri</td>
<td>10/25</td>
<td>Historical Overview / Legacy Waste</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>14</td>
<td>Mon</td>
<td>10/28</td>
<td>Solid Waste Disposal</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>15</td>
<td>Wed</td>
<td>10/30</td>
<td>Alternatives to Landfilling Group Project <strong>Midpoint</strong> Check-in</td>
<td>Tania Busch Isaksen, DEOHS</td>
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<tr>
<td>17</td>
<td>Fri</td>
<td>11/01</td>
<td>Sustainability &amp; Green Chemistry</td>
<td>Nancy Simcox, DEOHS C.E. Director</td>
</tr>
<tr>
<td>18</td>
<td>Mon</td>
<td>11/04</td>
<td>Wastewater Treatment – Centralized</td>
<td>Kaitlyn Kelly, DEOHS</td>
</tr>
<tr>
<td>19</td>
<td>Wed</td>
<td>11/06</td>
<td>Wastewater Treatment – Decentralized</td>
<td>Meagan Jackson, PHSKC</td>
</tr>
<tr>
<td>20</td>
<td>Fri</td>
<td>11/08</td>
<td>Environmental Justice &amp; Community Action</td>
<td>Andrew Schiffer, Just Health Action</td>
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<tr>
<td><strong>Mon 11/11 - Holiday no class</strong></td>
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<tr>
<td>21</td>
<td>Wed</td>
<td>11/13</td>
<td>Climate Basics</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>22</td>
<td>Fri</td>
<td>11/15</td>
<td>CC Community Health Risks</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>23</td>
<td>Mon</td>
<td>11/18</td>
<td>Air Pollution &amp; Health</td>
<td>Kaitlyn Kelly, DEOHS</td>
</tr>
<tr>
<td>24</td>
<td>Wed</td>
<td>11/20</td>
<td>Indoor Air Quality &amp; the Housing Connection</td>
<td>Nicole Thomsen, Snohomish County HD</td>
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<tr>
<td>25</td>
<td>Fri</td>
<td>11/22</td>
<td>Climate Change and Nutrition</td>
<td>Yona Sipos, DEOHS</td>
</tr>
<tr>
<td>26</td>
<td>Mon</td>
<td>11/25</td>
<td>Zoonotic/ Vectorborne Disease Transmission &amp; Control</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td>27</td>
<td>Wed</td>
<td>11/27</td>
<td>Climate Change Storytelling / Wrap Up</td>
<td>Tania Busch Isaksen, DEOHS</td>
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<tr>
<td><strong>Fri 11/29 - Holiday – no class</strong></td>
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<tr>
<td>28</td>
<td>Mon</td>
<td>12/02</td>
<td>Occ. Health &amp; Safety Overview</td>
<td>Marissa Baker, DEOHS</td>
</tr>
<tr>
<td>29</td>
<td>Wed</td>
<td>12/04</td>
<td>Radiation Health &amp; Safety</td>
<td>Kevin Makinson, UW EH&amp;S</td>
</tr>
<tr>
<td>30</td>
<td>Fri</td>
<td>12/06</td>
<td>Cannabis &amp; Occupational Health Course Wrap Up</td>
<td>Tania Busch Isaksen, DEOHS</td>
</tr>
<tr>
<td><strong>FW</strong></td>
<td>Mon</td>
<td>12/9</td>
<td>Group Presentations 8:30 am – 10:20 am</td>
<td>MANDATORY ATTENDANCE</td>
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</tbody>
</table>
ACCREDITATION REQUIREMENTS & COMPETENCIES MET BY COURSE

I. Environmental Health Science and Protection Accreditation Council (EHAC)
requirements met by this course include:

B. Core environmental health knowledge areas (pg 11)

2. Cross Cutting Knowledge Areas:
   - Analysis and Reduction of Environmental Risks (i.e., Risk Assessment, Risk Communication and Risk Management)

C. Environmental health technical areas (pg 11)

   “Students shall have been exposed to the foundational principles of environmental health (six starred topic areas) and most of the following topic areas in their program of study.” This course exposes students to the bolded in the list of foundational principles for EH.

   **Air Quality Control**
   All-hazard Preparedness
   Built Environment
   **Global Climate Change and Human Health**
   **Disease Prevention**
   Environmental Health Planning
   **Food Protection**
   Geographic Information Systems
   **Global Environmental Health**
   Hydrogeology
   Injury and Violence Prevention
   Institutional Health
   **Occupational Health and Safety**
   **Radiation Health**
   Recreational Environmental Health
   **Risk Analysis**
   Soils
   **Solid and Hazardous Material and Waste Management**
   **Water and Wastewater**
   **Zoonotic and Vector-borne Diseases and Their Control**

II. Council on Education for Public Health (CEPH) competencies met by this course include:

D-10-1 Public Health Domains
   - Overview of Public Health: Address the history and philosophy of public health as well as its core values, concepts, and functions across the globe and in society (Cover)
• Role and Importance of Data in Public Health: Address the basic concepts, methods, and tools of public health data collection, use, and analysis and why evidence-based approaches are an essential part of public health practice (Cover)
• Identifying and Addressing Population Health Challenges: Address the concepts of population health, and the basic processes, approaches, and interventions that identify and address the major health-related needs and concerns of populations (Cover)
• Human Health: Address the underlying science of human health and disease including opportunities for promoting and protecting health across the life course (Cover)
• Determinants of Health: Address the socio-economic, behavioral, biological, environmental, and other factors that impact human health and contribute to health disparities (Cover)
• Project Implementation: Address the fundamental concepts and features of project implementation, including planning, assessment, and evaluation (Introduce)
• Overview of the Health System: Address the fundamental characteristics and organizational structures of the U.S. health system as well as to the differences in systems in other countries (Cover)
• Health Policy, Law, Ethics, and Economics: Address the basic concepts of legal, ethical, economic, and regulatory dimensions of health care and public health policy, and the roles, influences and responsibilities of the different agencies and branches of government (Introduce)
• Health Communications: Address the basic concepts of public health-specific communication, including technical and professional writing and the use of mass media and electronic technology (Introduce)

D13-1 Concepts

• Advocacy for protection and promotion of the public’s health at all levels of society (Introduce)
• Community dynamics (Introduce)
• Critical thinking and creativity (Cover)
• Cultural contexts in which public health professionals work (N/C)
• Ethical decision making as related to self and society (Introduce)
• Independent work and a personal work ethic (Cover)
• Networking (N/C)
• Organizational dynamics (N/C)
• Professionalism (N/C)
• Research methods (Cover)
• Systems thinking (Cover)
• Teamwork and leadership (Cover)