Winter Quarter 2017
University of Washington

EnvH 538: Public Health and Built Environment
Dept. of Environmental and Occupational Health Sciences, UW School of Public Health

UrbDP 538: Public Health and Built Environment / Healthy Community Design
Dept. of Urban Design and Planning, UW College of Built Environments

EnvH 538 and UrbDP 538 are taught concurrently.

Instructors
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Class sessions: Thursdays, 5:00pm – 6:50pm, January 5 to March 9, 2017
Location: UW College of Built Environments, Gould Hall, Room 440

Course Description
This interdisciplinary course focuses on the increasing recognition that the design of communities can impact human health, especially among vulnerable populations. Community designs that feature parks, sidewalks, trails, public transit, and connectivity among destinations can encourage physical activity, help prevent obesity and its associated health consequences, and reduce dependence on automobiles whose use contributes to air pollution, motor vehicle crashes, and pedestrian injuries. Increased attention to the health implications of the built environment has led to various innovative solutions, such as mixed-use Smart Growth developments, investments in bicycling and pedestrian infrastructure, and the use of health impact assessments to convey health information to community decision-makers.

Course Learning Objectives
At the conclusion of the course, students should be able to:
- Explain how the built environment impacts public health both positively and negatively
- Critique the literature regarding health and built environment including its strengths and weaknesses
- Describe the methods used to assess the built environment and its impact on health
- Describe the options available to promote healthy community design decisions
- Summarize the benefits of and barriers to working in an interdisciplinary environment
Student Evaluation

- Class participation 15%
- Street and park audit 20%
- 3-5 page paper on research topic 20%
- Two minute oral testimony 15%
- Written reflections on readings 30%

Access and Accommodations

Your experience in this class is important to us, and it is the policy and practice of the University of Washington (UW) 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 instructors 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 interactive process between you, your instructors, 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 disability.uw.edu

Academic Integrity

Students at UW are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. UW 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 UW 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 UW regulations. For more information, see the UW Community Standards and Student Conduct website.

Class Schedule and Readings


Other readings are provided on Canvas Share Space (https://canvas.uw.edu/).

January 5: Introduction to public health and the built environment

- MHP Preface. Richard Jackson
- MHP Chapter 1. Introduction to healthy places. Howard Frumkin, Arthur Wendel, Robin Abrams, Emil Malizia
January 12:  Physical activity, injuries  
**Guest speakers:** Jason A. Mendoza, MD, MPH, Associate Professor, Pediatrics, University of Washington, Seattle Children’s Hospital, 5:00-6:00pm  
Dan Burden, Director of Innovation & Inspiration, Blue Zones, LLC; dan.burden@bluezones.com, 6:00-6:50pm  
- MHP Chapter 2. Community design for physical activity. James Sallis, Rachel Millstein, Jordan Carlson  
- MHP Chapter 5. Injuries and the built environment. David Sleet, Rebecca Naumann, Rose Anne Rudd  

Optional activity: The Built Environment Assessment Training Institute (BEAT) offers two free online training courses related to the built environment: (a) Assessing the Built Environment for Physical Activity, and (b) Assessing the Nutrition Environment. Total time: approximately 4 hours. [http://www.med.upenn.edu/beat/onlinetraining.shtml](http://www.med.upenn.edu/beat/onlinetraining.shtml)

January 19:  Healthy homes, vulnerable populations  
**Guest speaker:** Nicole Thomsen, REHS, Environmental Public Health Planner, Public Health – Seattle & King County, Nicole.Thomsen@kingcounty.gov; 5:00-6:00 pm  
- MHP Chapter 9. Vulnerable populations and the built environment. Chris Kochtitzky  
- MHP Chapter 11. Healthy homes. James Krieger, David Jacobs  
- ChangeLab Solutions. Preserving, protecting, and expanding affordable housing. Executive Summary. 2015. [http://www.changelabsolutions.org/sites/default/files/Preserving_Affordable_Housing-EXECUTIVE_SUMMARY_FINAL_20150401_0.pdf](http://www.changelabsolutions.org/sites/default/files/Preserving_Affordable_Housing-EXECUTIVE_SUMMARY_FINAL_20150401_0.pdf)

January 26:  Healthy food access, air quality, water quality  
**Guest speaker:** Jesse Jones-Smith, PhD, MPH, RD, Associate Professor, Dept. of Health Services & Nutrition Sciences Program, UW School of Public Health, jjoness@uw.edu  
**READING REFLECTIONS FOR WEEKS 1 TO 4 DUE by 5:00pm**  
- MHP Chapter 3. Food environments. Carolyn Cannuscio, Karen Glanz  
- MHP Chapter 4. Community design and air quality. Jonathan Samet
- MHP Chapter 6. Community design for water quantity and quality. Lorraine Backer

February 2: Mental health, social capital, healthy workplaces, behavioral choices

**STREET AND PARK AUDIT DUE by 5:00pm**

**Guest speaker:** Judith Heerwagen, PhD, Environmental psychologist, Office of Federal High Performance Green Buildings, US General Services Administration; *Judith.heerwagen@gsa.gov*; 5:00-6:00 pm

- MHP Chapter 8. Social capital and community design. Caitlin Eicher, Ichiro Kawachi
- MHP Chapter 17. Behavioral choices and the built environment. Margaret Schneider

February 9: Land use and transportation, healthy places research

**Guest speaker:** Mark Hallenbeck, MS, Director, Washington State Transportation Center; *tracmark@uw.edu*

- MHP Chapter 10. Transportation and land use. Reid Ewing, Gail Meakins, Grace Bjarnson, Holly Hilton
- MHP Chapter 22. Healthy places research: emerging opportunities. Richard Jackson, Arthur Wendel, Andrew Dannenberg

February 16: Healthy health care settings, schools, nature contact, climate change

**RESEARCH PROJECT PAPERS DUE by 5:00pm**

**Guest speaker:** Heather Burpee, Research Assistant Professor, UW Department of Architecture; Integrated Design Lab; *burpeeh@uw.edu*

Observational exercise in and around Gould Hall to be done in class

- MHP Chapter 13. Healthy health care settings. Craig Zimring, Jennifer DuBose
- MHP Chapter 14. Healthy schools. Howard Frumkin, Jared Fox
- MHP Chapter 15. Contact with nature. Howard Frumkin, Jared Fox

February 23:  **Policy interventions, community engagement**

- MHP Chapter 18. Policy and legislation for healthy places. Lisa Feldstein  
- MHP Chapter 19. Community engagement in design and planning. Manal Aboelata, Leah Ersoylu, Larry Cohen  

March 2:  **Community resilience, healthy places tools**  
**Student presentations in class: Two minute testimony**

- MHP Chapter 16. Resiliency to disasters. Timothy Beatley  

March 9:  **Built environments in developing countries, future built environments**  
**Guest speakers: Local health department panel on healthy community design**

- Keri Moore, MPH, Healthy Communities Specialist, Snohomish Health District, kmoore@snohd.org  
- Amy Shumann, MSW, Environmental Public Health Planner, Healthy Community Planning, Public Health - Seattle & King County, Amy.Shumann@kingcounty.gov

**READING REFLECTIONS FOR WEEKS 5 TO 10 DUE by 5:00pm**

- MHP Chapter 23. Urban health in low- and middle- income countries. Jenna Johnson, Sandro Galea  
- MHP Chapter 24. Built environments of the future. Tony Capon, Susan Thompson  

Optional course readings

- MHP Chapter 21. Training the next generation to promote healthy places. Nisha Botchwey, Matthew Trowbridge (includes discussion of job opportunities in field)  
- MHP Glossary  
Class activities/requirements

Reading Reflections:  **DUE DATES: January 26 and March 9**
For each assigned reading, write one paragraph (typically ¼ to ½ page long, single spaced) responding to the following questions. “Considering the focus of the class on health and built environment issues,

- What information in the reading was new to you,
- How does the information in the reading relate to your background and interests,
- How might the information in the reading be useful to you in your future work?”

- Should the reading be used in this course next year, using scale of 1 (definitely delete) to 10 (definitely keep)?

**Deliverables:** Set of reading reflections accumulated into a file (Part 1 and Part 2) uploaded to Canvas.

**DUE January 26:** Reflections Part 1 covering weeks 1 to 4 of readings

**DUE March 9:** Reflections Part 2 covering weeks 5 to 10 of readings

Field exercise:  **Street and park audit  DUE DATE: February 2**
1. Review combined street and park audit tool posted on Canvas.
2. Work in pairs with a classmate from another college or school (such as CBE and SPH) to conduct an audit of one local park and an adjacent street that leads to the park.
3. Deliverables to be uploaded to Canvas, clearly labeled to indicate who worked in your group:
   a) Map of park and adjacent street with key features noted.
   b) Completed audit tool for that park and street, including recommendations for how that park and street could be improved.
   c) Up to 10 digital photographs highlighting important features – please use low resolution photos so report can be emailed. Include brief captions with each photograph.

Research project paper:  **DUE DATE: February 16**
1. Review research methods and topics listed in *Making Healthy Places Chapter 22. Healthy places research: emerging opportunities.*
2. Select a topic of interest from this chapter and write a 3-5 page single-spaced paper first describing briefly why the topic is important, and then describing in more detail how you would design a research project to add to our knowledge about this topic. Paper should include:
   - Proposed study design
   - Types of skills research team would need
   - Characteristics of a study population (and of comparison group if needed)
   - Data sources
   - Methods such as surveys, informant interviews, use of existing datasets
   - Types of analyses
   - Ethics concerns (if any)
   - Types of results that might be found in such a study
   - Possible implications of such results.

**Deliverable:** 3-5 page single spaced paper uploaded to Canvas.
Two minute testimony: **DUE DATE: March 2**

1. Pick a current topic related to a proposed change in the built environment (locally or elsewhere) that has health implications.

2. Prepare a two minute oral testimony that might be delivered to a city council, legislature, zoning board, or other decision-making group conveying the health concerns about the project and how it might be improved to promote health or mitigate adverse health impacts.

   Deliverable: Upload topic of testimony to Canvas (one sentence or less), and give a 2 minute (timed) oral presentation during March 2 class. You do not need to submit a written version of what you present to the class.

The topic you pick may be a real or fictional, and may be Seattle-based or from your hometown or elsewhere. You may find a topic in the local newspaper. The proposed project may be favorable to health that you want to support, or could be bad for health that you want to discourage. Your task is to convey to the decision-makers in 2 minutes the impact of the proposal on health and urge them to consider health as part of their decision. Feel free to be creative on your topic. Some examples of possible topics –

- A bill to close three nearby community schools and build one large new school on cheap land farther from the students it serves
- A bond issue to provide more funding for new parks and for maintaining existing parks
- A bill to build a new sports stadium and demolish homes of 1000 low income persons
- A bill requiring 10% of city transportation funds be used to improve bike and pedestrian infrastructure in the city
- A zoning proposal to require that houses be built on large lots and to forbid mixed use developments
- A bill to set aside land for more community gardens (P patches) in the city
- A proposal to allow apodments (tiny apartments) to be built in Capitol Hill

The format of your 2 minute testimony should be as follows:

- First introduce yourself: “I am [your real name] representing XYZ organization (real or fictional) or speaking as a public health professional or as a concerned citizen”
- The location today is Seattle City Council or wherever.
- The topic today is the proposed bill to do …… (one sentence maximum)
- Then provide succinctly how the proposed bill affects health and the built environment and how you are urging the decision-maker to vote or to improve the proposal.