

PA 5209 Urban Planning and Health Equity

Lecture: 1 - 2:15 pm MW (Jan 22, 2020 – May 4, 2020), 35 Humphrey School
Instructor: Yingling Fan, yingling@umn.edu, 612-626-2930, 295E Humphrey School
Office Hour: Any available timeslots on Mons & Weds btw 9am-5pm on my UMN calendar

DESCRIPTION

This interdisciplinary course examines the causes and consequences of place-based health disparities in cities, explores how health disparities can be mitigated and exacerbated by urban planning decisions, and introduces best practices in urban planning for achieving community health equity. The course will involve extensive readings, guest lectures, field-based assignments, and local community involvement. Twin Cities has one of the largest disparities in health outcomes in the nation and local practitioners are pioneering new urban planning solutions to reduce place-based health disparities. The course will utilize this location advantage and use the region as an immersive learning environment. Students are expected to apply knowledge and skills learned in the class locally in the Twin Cities region.

At the end of the course, students will be able to:

- Understand the historical foundations, current trends and challenges, and international perspectives in connecting urban planning to health equity issues.
- Investigate how various planning sectors and urban environment dimensions, including land use, transportation, open space, housing, food systems, and community social capital, interact to affect health disparities in cities.
- Critically evaluate how existing planning processes and decisions respond to the needs of vulnerable populations and contribute to health equity.
- Develop skills to engage communities and identifying community-sensitive solutions for reducing place-based health disparities.

This course fulfills a requirement for the Health Equity Minor open to all University of Minnesota graduate students. For more information on the minor and a full list of requirements, please visit <http://www.sph.umn.edu/academics/minor/health-equity/>

REQUIREMENTS

Class Participation (15%): Class participation includes physical attendance and active participation in classroom discussion. You are required to read the assigned readings before each class to have active and informed participation in classroom discussion.

In-Class Quizzes (15%): There will be two in-class quizzes: one on foundational knowledge in Week 4 and another on tools and approaches in Week 8. The first quiz will account for 10% of

the final grade and the second one will be shorter and account for 5% of the final grade. Both quizzes mostly contain multiple-choice and sentence completion questions.

Large-Group Photovoice Project (15%): This group project involves using the photovoice approach developed by Caroline Wang in 1994 to identify important community health issues and facilitate effective communication. Students will be assigned into groups and each group will be assigned to work on a specific neighborhood in the Twin Cities region. Each group is required to present six photos reflecting the most critical health equity issues in the assigned neighborhood. Short narratives should be provided for each photo describing when and where the photo was taken and why the photo was selected for presentation.

Individual Essay Assignment (15%): Each student will write an op-ed piece linking urban planning to health and/or equity issues. Op-ed is defined as "an essay in a newspaper or magazine that gives the opinion of the writer and that is written by someone who is not employed by the newspaper or magazine." Writing an op-ed essay is all about exercising a point-of-view and making an argument, which you will need to do routinely as a practicing planner. The topic of the op-ed essay will be of your choosing, but must focus on an issue relevant for urban and regional planning and its connections with public health or social equity.

Small-Group Community Health Planning Project (40%): In small groups, students are required to integrate the knowledge and skills learned throughout the semester, apply current evidence and best practices out there, and complete a healthy communities plan on a neighborhood of particular interest in the Twin Cities region. The plan is expected to guide a planning and/or public health agency on ways to create, retrofit or maintain a healthy community in the selected neighborhood. The plan should at least include: (1) a critique of the current state of the area's built environment and health disadvantages with relevant data, and (2) recommended solutions for reducing health disadvantages in the area.

Letter grades are assigned as follows. 94-100=A, 90-93=A-, 87-89=B+, 84-86=B, 80-83=B-, 77-79=C+, 74-76=C, 70-73=C-, 65-69=D, and 64 and below = F. Unless prior arrangements have been made, late papers will be penalized three points immediately and then again for each 48 hours that passes after the due date/time.

READINGS

PART I: OVERVIEW AND BACKGROUND

Week 1

Wednesday, Jan 22 - Introduction

- Kjellstrom, Tord, Sharon Friel, Jane Dixon, Carlos Corvalan, Eva Rehfuess, Diarmid Campbell-Lendrum, Fiona Gore, and Jamie Bartram. "Urban environmental health hazards and health

equity." *Journal of urban health* 84, no. 1 (2007): 86-97.

- Northridge, Mary Evelyn, and Lance Freeman. "Urban planning and health equity." *Journal of Urban Health* 88, no. 3 (2011): 582-597.

Week 2

Monday, Jan 27 - Historical Overview

- Schilling, Joseph, and Leslie S. Linton. "The public health roots of zoning: in search of active living's legal genealogy." *American journal of preventive medicine* 28, no. 2 (2005): 96-104.
- Peterson, Jon A. "The impact of sanitary reform upon American urban planning, 1840-1890." *Journal of Social History* 13, no. 1 (1979): 83-103.

Wednesday, Jan 29 - Current Trends and Challenges

- Corburn, Jason. "Confronting the challenges in reconnecting urban planning and public health." *American journal of public health* 94, no. 4 (2004): 541-546.
- Frumkin, Howard. "Urban sprawl and public health." *Public health reports* 117, no. 3 (2002): 201.
- Ford, Chandra L., and Collins O. Airhihenbuwa. "Critical race theory, race equity, and public health: toward antiracism praxis." *American journal of public health* 100, no. S1 (2010): S30-S35.

Week 3

Monday, Feb 3 - International Perspectives

- Younger, Margalit, Heather R. Morrow-Almeida, Stephen M. Vindigni, and Andrew L. Dannenberg. "The built environment, climate change, and health: opportunities for co-benefits." *American journal of preventive medicine* 35, no. 5 (2008): 517-526.
- Campbell-Lendrum, Diarmid, and Carlos Corvalán. "Climate change and developing-country cities: implications for environmental health and equity." *Journal of Urban Health* 84, no. 1 (2007): 109-117.
- Helliwell, John, Layard, Richard, & Sachs, Jeffrey. (2017). *World Happiness Report 2017*, New York: Sustainable Development Solutions Network.

Wednesday, Feb 5 - Current Trends and Challenges in the Twin Cities

- Guest lecturer Melanie Ferris, Wilder Research.

Week 4

Monday, Feb 10 – Advancing Regional Equity: Watershed Moments and Mountaintop Views

- Guest lecturer C Terrence Anderson, Director of Community-Based Research Programs, University of Minnesota Center for Urban and Regional Affairs

Wednesday, Feb 12 – Quiz #1 and Intro to the Photovoice Assignment

PART II: TOOLS AND APPROACHES TO PROMOTE COMMUNITY HEALTH EQUITY

Week 5

Monday, Feb 17 - Community-Based Participatory Research

- Minkler, Meredith, and Trevor Hancock. "Community-driven asset identification and issue selection." *Community-based participatory research for health: From process to outcomes* (2008): 153-169.
- Kramer, Leila, Pamela Schwartz, Allen Cheadle, J. Elaine Borton, Merrick Wright, Charlie Chase, and Corina Lindley. "Promoting policy and environmental change using Photovoice in the Kaiser Permanente Community Health Initiative." *Health Promotion Practice* 11, no. 3 (2010): 332-339.

Wednesday, Feb 19 - Community Engagement and Vulnerable Populations

- Guest lecturer Lauren Martin on sex trafficking and community engagement

Week 6

Monday, Feb 24 - Health Impact Assessment (Carissa Slotterback)

- Forsyth, Ann, Carissa Schively Slotterback, and Kevin Krizek. "Health impact assessment (HIA) for planners: what tools are useful?." *CPL bibliography* 24, no. 3 (2010): 231-245.
- Cole, Brian L., and Jonathan E. Fielding. "Health impact assessment: a tool to help policy makers understand health beyond health care." *Annu. Rev. Public Health* 28 (2007): 393-412.

Wednesday, Feb 26 - Health Impact Assessment (Katie Caskey from MnDOT and Nissa Tupper from MDH)

- Minnesota Department of Transportation and Minnesota Department of Health, MnDOT Statewide Multimodal Transportation Plan HIA, Available at <http://www.health.state.mn.us/divs/hia/docs/mndothiafinalreport.pdf>

Week 7

Monday, Mar 2 - Photovoice Presentation & Introduction to Individual Essay Assignment

Wednesday, Mar 4 - Urban Health Equity Visualization and Analyses

- Talen, Emily. "Visualizing fairness: Equity maps for planners." *Journal of the American Planning Association* 64, no. 1 (1998): 22-38.
- Guthrie, Andrew, Yingling Fan, and Kirti Das. "Accessibility scenario analysis of a hypothetical future transit network: Social equity implications of a general transit feed specification-based sketch planning tool." *Transportation research record* 2671, no. 1 (2017): 1-9.

Week 8 – Spring Break

Week 9

Monday, Mar 16 - Urban Health Equity Indicators

- Corburn, Jason, and Alison K. Cohen. "Why we need urban health equity indicators: integrating science, policy, and community." *PLoS medicine* 9, no. 8 (2012): e1001285.
- Frank, Lawrence D., James F. Sallis, Brian E. Saelens, Lauren Leary, Kelli Cain, Terry L. Conway, and Paul M. Hess. "The development of a walkability index: application to the Neighborhood Quality of Life Study." *British journal of sports medicine* 44, no. 13 (2010): 924-933.

Wednesday, Mar 18 - Quiz #2 and Reflection on Individual Essay Assignment

PART III: SECTORAL AND INTER-SECTORAL UNDERSTANDING OF THE ISSUES

Week 10

Monday, Mar 23 - Transportation and Health Equity

- Sallis, James F., Lawrence D. Frank, Brian E. Saelens, and M. Katherine Kraft. "Active transportation and physical activity: opportunities for collaboration on transportation and public health research." *Transportation Research Part A: Policy and Practice* 38, no. 4 (2004): 249-268.
- Zhu, Jing, and Yingling Fan. "Daily travel behavior and emotional well-being: Effects of trip mode, duration, purpose, and companionship." *Transportation Research Part A: Policy and Practice* 118 (2018): 360-373.
- Cepeda, Magda, Josje Schoufour, Rosanne Freak-Poli, Chantal M. Koolhaas, Klodian Dhana, Wichor M. Bramer, and Oscar H. Franco. "Levels of ambient air pollution according to mode of transport: a systematic review." *The Lancet Public Health* 2, no. 1 (2017): e23-e34.

Wednesday, Mar 25 – Autonomous Vehicles and Health Equity (Guest Lecture)

- Guest lecturer Frank Douma, State and Local Policy Program Director, Humphrey School of public Affairs

Week 11

Monday, Mar 30 - Community Development and Health Equity

- Krug, Etienne G., James A. Mercy, Linda L. Dahlberg, and Anthony B. Zwi. "The world report on violence and health." *The lancet* 360, no. 9339 (2002): 1083-1088.
- Svendsen, Gunnar Lind Haase. "Socio-spatial Planning in the Creation of Bridging Social Capital: The Importance of Multifunctional Centers for Intergroup Networks and Integration." *International Journal of Social Inquiry* 3, no. 2 (2010).

Wednesday, April 1 – Air Quality and Health Equity

- Guest lecturer Dr. Ajay Singh Nagpure, Post-Doctoral Associate, Center for Science, Technology, and Environmental Policy

Week 12

Monday, April 6 - Housing and Health Equity

- Hood, Ernie. "Dwelling disparities: how poor housing leads to poor health." *Environmental Health Perspectives* 113, no. 5 (2005): A310.
- Goodman, Melody and Gilbert, Keon. "Segregation: Divided Cities Lead to Differences in Health (Policy Brief)". (2013). Available at <https://forthesakeofall.files.wordpress.com/2013/11/policy-brief-4.pdf>

Wednesday, April 8 – Land Use and Health Equity

- Fan, Yingling, and Yan Song. "Is sprawl associated with a widening urban–suburban mortality gap?." *Journal of Urban Health* 86, no. 5 (2009): 708-728.
- Dannenberg, Andrew L., Richard J. Jackson, Howard Frumkin, Richard A. Schieber, Michael Pratt, Chris Kochtitzky, and Hugh H. Tilson. "The impact of community design and land-use choices on public health: a scientific research agenda." *American journal of public health* 93, no. 9 (2003): 1500-1508.

Week 13

Monday, April 13 – Comprehensive Planning for Health Equity

- Guest lecturer Denise P. Engen, Principal Planning Analyst, Hennepin County
- [Planning for a healthy community with the comprehensive plan \(PDF\)](#)
- [Final Healthy Comprehensive Plans Checklist \(PDF\)](#)

Wednesday, April 15 - Food Systems and Health Equity

- Raja, Samina, Changxing Ma, and Pavan Yadav. "Beyond food deserts: measuring and mapping racial disparities in neighborhood food environments." *Journal of Planning Education and Research* 27, no. 4 (2008): 469-482.
- Eisenberg, Marla E., Rachel E. Olson, Dianne Neumark-Sztainer, Mary Story, and Linda H. Bearinger. "Correlations between family meals and psychosocial well-being among adolescents." *Archives of pediatrics & adolescent medicine* 158, no. 8 (2004): 792-796.

Week 14

Monday, April 20 – Neighborhood Open Spaces and Health Equity

- Fan, Yingling, Kirti V. Das, and Qian Chen. "Neighborhood green, social support, physical activity, and stress: Assessing the cumulative impact." *Health & place* 17, no. 6 (2011): 1202-1211.
- Das, Kirti, Yingling Fan, and Simone French. "Park-use behavior and perceptions by race, Hispanic origin, and immigrant status in Minneapolis, MN: implications on park strategies for addressing health disparities." *Journal of immigrant and minority health* 19, no. 2 (2017): 318-327.

- Cattell, Vicky, Nick Dines, Wil Gesler, and Sarah Curtis. "Mingling, observing, and lingering: Everyday public spaces and their implications for well-being and social relations." *Health & place* 14, no. 3 (2008): 544-561.

Wednesday, April 22 – Regional Parks and Health Equity

- Guest lecture Dr. Raintry J. Salk, Senior Research Analyst, Metropolitan Council

PART IV: FINAL COMMUNITY HEALTH PLAN PRESENTATIONS

Week 15

Monday, April 27 – Student Presentations

Wednesday, April 29 – Student presentations

Week 16

Monday, May 4 – Student presentations