

UP 494 JB: Transportation Equity

Spring 2018

University of Illinois at Urbana-Champaign
Department of Urban and Regional Planning

Meeting: MW 1 pm – 2:20 pm, 223 Temple Buell Hall

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Office hours: Wednesdays by appointment; sign up at <https://calendly.com/barajasj/>

Course Overview

Transportation moves us. Jobs, school, health clinics, grocery stores, recreational facilities, and more would be impossible to get to without adequate service and infrastructure. But history shows that the benefits of transportation have not been distributed equitably, and historically marginalized communities have had to bear disproportionate costs from transportation as well. More recently, planners have taken up the challenge of creating a more equitable transportation system. Achieving this goal, however, can stand in opposition to other important goals like efficiency and effectiveness. It is not an easy task. The purpose of this class is to come away with an understanding of the multiple dimensions of equity so you can ask critical questions of plans and policies that address all modes of transportation.

Objectives

The overall objective of the course is to foster discussion about what a just and equitable transportation system looks like. By the end of the course, you will be able to:

- Define transportation equity from multiple perspectives
- Comprehend the legal basis for equity in transportation equity in the US
- Apply methods to assess the equity of a transportation plan or service
- Understand how historical and current practice exacerbates disparities in access, health, safety, and economic opportunity
- Understand what affects the travel behavior of diverse population groups
- Discuss and write about equity using the language of practitioners, advocates, and academics

Course at a glance

Week	Date	Topic	Assignment due
1	Jan 15	<i>No class, Martin Luther King Jr. Day</i>	
1	Jan 17	Introduction	
2	Jan 22	Defining transportation equity	
2	Jan 24	Setting the stage: demographics and travel behavior	
3	Jan 29	Transportation justice (1)	
3	Jan 31	Transportation justice (2)	
4	Feb 5	Historical impacts of transportation planning (1)	
4	Feb 7	Historical impacts of transportation planning (2)	
5	Feb 12	Legal and policy frameworks: Title VI and Environmental Justice	
5	Feb 14	Class activity: Title VI analysis in CUUATS	Final project proposal
6	Feb 19	Assessing equity in regional plans and public transit	
6	Feb 21	Title VI in practice; Guest speaker: Ashlee McLaughlin, CUUATS	
7	Feb 26	Accessibility and equity: Definitions and theory (1)	
7	Feb 28	Accessibility and equity: Definitions and theory (2)	
8	Mar 5	Accessibility and equity: Indicators and empirical research (1)	
8	Mar 7	Class activity: Accessibility and equity in Champaign County	
9	Mar 12	Finance, cost, and pricing	
9	Mar 14	MPO governance	
	Mar 19	<i>Spring Break</i>	
	Mar 21	<i>Spring Break</i>	
10	Mar 26	Active transportation (1)	
10	Mar 28	Active transportation (2)	
11	Apr 2	ADA and planning for disability	
11	Apr 4	Transportation safety	
12	Apr 9	Class activity: Walking and bicycling audit	
12	Apr 11	Transportation, housing, gentrification, and displacement	
13	Apr 16	Advocacy; Guest speaker: Olantuji Oboi Reed, CEO, Equiticity	
13	Apr 18	Poverty and employment access	
14	Apr 23	Women and transportation	
14	Apr 25	Immigrants and transportation	
15	Apr 30	Transportation and the environment	
15	May 2	Course wrap-up and lightning talks	Final project (May 4)

Course Requirements

Course structure and assignments

This seminar-style class is organized around active participation and discussion led by students. Most days, I will facilitate discussion based on the readings or other topical events. Some lecture will be necessary when we cover concepts and material that form foundation for the day's discussion. There will be three in-class practical activities.

Each week, you must submit a reflection on the week's readings on Compass. Reading reflections should be about 250 words in length. The best submissions will be more than summaries of the readings—they should offer critical commentary, pose questions, or tie into other course or planning curriculum topics. We will often use these reflections as the basis for our class discussion. Reading reflections on the coming week's readings are due each Sunday night at 11:59 pm.

A final paper or project will be required and due on May 4. The paper or project can be on any topic of your choice related to transportation equity. You may choose to write a literature review paper, write an empirical research paper, or submit a multimedia project with a short write-up. Your topic should be sufficiently narrow to give your analysis some depth (i.e., "transportation equity" itself is too broad of a topic for this assignment). The paper should be between 3,000 and 4,500 words, not including diagrams, charts, tables, or references. If you choose to submit a multimedia project, we will mutually agree on the appropriate length, content, and format. Time permitting, you will briefly present your findings (in 5 minutes or less) on the final day of class.

Before selecting a final topic, I must approve your proposal. Submit a one-page proposal by February 14. I will offer feedback and guidelines for your final submission, and I may ask you to revise your proposal if necessary. Your proposal should include the following:

- Tentative title
- Type of product you will submit (literature review, research paper, multimedia project)
- Description of the topic or research question
- Resources you will draw upon, including literature and data sources
- Relevance for urban planning practice, research, or advocacy

Grades

Grade percentages will be distributed as follows:

Class participation	15%
Reading reflections	15%
In-class exercises	10%
Paper/project proposal	10%
Final paper/project	50%

Numerical grades will be transformed to letter grades using the following scale:

A: 94.0 or higher	C+: 77.0-79.99	D+: 67.0-69.99
A-: 90-93.99	C: 74.0-76.99	D: 64.0-66.99
B+: 87.0-89.99	C-: 70.0-73.99	D-: 60.0-63.99
B: 84.0-86.99		F: Less than 60.0
B-: 80.0-83.99		

Late assignments will lose one letter grade per day they are late. Reading reflections submitted late will not count toward your grade and cannot be made up. If you know you must submit something late because of a valid excuse, please notify me in advance.

Readings

No textbook is required for this course. Readings and links to readings will be available on Compass. I will add additional required readings from time to time. The list of readings is subject to revision throughout the semester.

Participation and attendance

Class participation, and therefore attendance, is mandatory at all sessions. However, I understand that life happens and you'll occasionally need to miss a class because of emergency, illness, religious observances, or another other need. There is no need to notify me in advance, but **more than three absences will result in a lower participation grade.** But do notify me in advance if you will have a prolonged absence for a legitimate reason. Whatever the reason for your absence, you are responsible for acquiring class materials when you do not attend, and assignments are still due as posted.

Course policies

Respect, civility, and inclusivity

We bring our own life experiences with us to the university, which means that we may have quite different perspectives about the issues we will discuss in this class. Any thoughtful viewpoints as they relate to the course material are welcome. I ask that you be mindful of our differences as you engage with your fellow classmates in a respectful manner. Skills in empathetic dialogue will serve you well as a professional planner.

The Department of Urban and Regional Planning (DURP) is committed to maintaining a learning environment that is rooted in the goals and responsibilities of professional planners. By enrolling in a class offered by the Department of Urban and Regional Planning, students agree to be responsible for maintaining an atmosphere of mutual respect in all DURP activities, including lectures, discussions, labs, projects, and extracurricular programs. See Student Code, Article 1-Student Rights and Responsibilities, Part 1. Student Rights, §1-102.

Academic accommodations

If you need academic accommodations due to a documented disability, please inform me as soon as possible. You should also contact the Disability Resources and Educational Services (DRES) as soon as possible. To contact DRES, you may visit 1207 S. Oak St., Champaign, call 217-333-4603, email disability@illinois.edu, or go to the [DRES website](#).

Counseling

Academic settings can be stressful and it's easy to get overwhelmed. If you feel that you need help, consider making an appointment at the Counseling Center (<https://counselingcenter.illinois.edu/>). The Counseling Center is committed to providing a range of services intended to help students develop improved coping skills to address emotional, interpersonal, and academic concerns. The Counseling Center provides individual, couples, and group counseling. These services are paid for through the health services fee.

Academic integrity

Don't cheat and don't plagiarize. Any work you turn in with your name on it is presumed to be your own. If it is not, and you do not attribute the work to its source, it is grounds for sanctions that range from a written warning to course failure to dismissal or suspension. Refer to the [University of Illinois Student Code](#) for more details.

FAA Writing Services

Susan Liepert, the FAA Writing Advisor, offers one-on-one writing assistance to undergraduates, graduate students, and faculty. Classroom workshops and presentations are also available. She is available to assist FAA students (and students in FAA unit classes) with classroom assignments; theses and dissertations; artist statements, short bios and program notes; grant applications; scholarly publications; resumés, portfolios, and cover letters; and many other kinds of documents. Weekly drop-in hours are available Monday to Thursday 2:30 to 4:30 pm or Friday 11:30 am to 1:30 pm in Room 100G ARCH.

Laptops, tablets, and cell phones

There is documented scientific evidence that (1) humans are incapable of multitasking, (2) they get distracted easily, and (3) writing notes longhand is better for memory retention than typing. That means that, all else being equal, you are likely to perform better in this class if you stow away your laptop and pull out your paper notebook and pen to take notes. But I recognize that some people have organized their lives entirely digitally and prefer to use a laptop, while others may require one because of a disability. So, feel free to use your laptop or tablet for notetaking purposes or when otherwise instructed. (Some of the class activities will be easier to do with a laptop.) As a matter of respect for the instructors and your classmates, do yourself a favor and disable your wi-fi, install website blocking software, or provide yourself consistent positive reinforcement to avoid using the internet during class. I will ask you to put away your digital devices if we find your technology use to be distracting. Also—please turn off your phone ringers and keep your phones put away.

Course reading list and schedule

Note: This schedule and reading list is subject to revision throughout the semester.

Week 1 (Jan 17): Introduction

The Untokening. 2017. *Untokening 1.0: Principles of Mobility Justice*.
<http://www.untokening.org/s/Untokening-10-web.pdf>

Week 2 (Jan 22, 24): Defining and setting the stage for equity

Renne, John L., and Peter Bennett. 2014. "Socioeconomics of Urban Travel: Evidence from the 2009 National Household Travel Survey with Implications for Sustainability." *World Transport Policy & Practice* 20 (4): 7-27. <http://www.eco-logica.co.uk/pdf/wtpp20.4.pdf>

Karner, Alex, Dana Rowangould, and Jonathan London. 2016. *We Can Get There From Here: New Perspectives on Transportation Equity*. Davis, CA: National Center for Sustainable Transportation. https://ncst.ucdavis.edu/wp-content/uploads/2016/12/NCST_EquityWhitePaper-FINAL.pdf

Litman, Todd. 2002. "Evaluating Transportation Equity." *World Transport Policy & Practice* 8 (2): 50-66. <http://www.eco-logica.co.uk/pdf/wtpp08.2.pdf>

Lucas, Karen. 2012. "Transport and Social Exclusion: Where Are We Now?" In *Mobilities: New Perspectives on Transport and Society*, edited by Margaret Greico and John Urry, 207-222. Farnham: Taylor and Francis.

Week 3 (Jan 29, 31): Transportation justice in theory and practice

Martens, Karel. 2017. "Fairness in Traditional Transportation Planning." Chapter 2 in *Transport Justice: Designing Fair Transportation Systems*. New York: Routledge.

Sheller, Mimi. 2011. "Sustainable Mobility and Mobility Justice: Towards a Twin Transition." In *Mobilities: New Perspectives on Transport and Society*, edited by Margaret Greico and John Urry, 289-304. Farnham: Taylor and Francis.

Golub, Aaron et al. 2016. "Introduction: Creating an Inclusionary Bicycle Justice Movement." In *Bicycle Justice and Urban Transformation: Biking for All?*, edited by Aaron Golub et al. New York: Routledge.

Grengs, Joe. 2005. "The Abandoned Social Goals of Public Transit in the Neoliberal City of the USA." *City* 9 (1):51-66. <https://doi.org/10.1080/13604810500050161>.

Week 4 (Feb 5, 7): Historical impacts of transportation planning

Caro, Robert. 1974. "The Meat Ax"; "One Mile." Chapters 36 and 37 in *The Power Broker: Robert Moses and the Fall of New York*. New York: Vintage.

Avila, Eric. 2014. "Communities Lost and Found: The Politics of Historical Memory." Chapter 3 in *The Folklore of the Freeway: Race and Revolt in the Modernist City*. Minneapolis: University of Minnesota Press.

Golub, Aaron, Richard A. Marcantonio, and Thomas W. Sanchez. 2013. "Race, Space, and Struggles for Mobility: Transportation Impacts on African Americans in Oakland and the East Bay." *Urban Geography* 34 (5): 699–728. <https://doi.org/10.1080/02723638.2013.778598>.

Week 5 (Feb 12, 14): Legal and policy frameworks: Title VI and Environmental Justice

Marcantonio, Richard A., et al. 2017. "Confronting Inequality in Metropolitan Regions: Realizing the Promise of Civil Rights and Environmental Justice in Metropolitan Transportation Planning." *Fordham Urban Law Journal* 44 (4): 1017-1077. <http://ir.lawnet.fordham.edu/cgi/viewcontent.cgi?article=2704&context=ulj>

Council on Environmental Quality. 1997. *Environmental Justice: Guidance Under the National Environmental Policy Act*. Washington, DC: Executive Office of the President. https://www.energy.gov/sites/prod/files/nepapub/nepa_documents/RedDont/G-CEQ-EJGuidance.pdf

Skim through FTA Circular 4702.1B, "Title VI Requirements and Guidelines for Federal Transit Administration Recipients," **but read the following pages:** I-6 to I-10 (sec 6), II-1 (sec 1-2), Chapter III. https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA_Title_VI_FINAL.pdf

In class Wednesday, February 14: CUUATS. 2016. *CUUATS Title VI Program*. Champaign, IL: Champaign County Regional Planning Commission. https://ccrpc.org/wp-content/uploads/2015/03/FINAL-Title-VI-110617_access.pdf

Final paper proposal due February 14.

Week 6 (Feb 19, 21): Assessing equity in regional plans and public transit

Karner, Alex, and Deb Niemeier. 2013. "Civil Rights Guidance and Equity Analysis Methods for Regional Transportation Plans: A Critical Review of Literature and Practice." *Journal of Transport Geography* 33: 126–34. <https://doi.org/10.1016/j.jtrangeo.2013.09.017>.

Rowangould, Dana, Alex Karner, and Jonathan London. 2016. "Identifying Environmental Justice Communities for Transportation Analysis." *Transportation Research Part A: Policy and Practice* 88: 151–62. <https://doi.org/10.1016/j.tra.2016.04.002>.

Manaugh, Kevin, Madhav G. Badami, and Ahmed M. El-Geneidy. 2015. "Integrating Social Equity into Urban Transportation Planning: A Critical Evaluation of Equity Objectives and Measures in Transportation Plans in North America." *Transport Policy* 37:167–76. <https://doi.org/10.1016/j.tranpol.2014.09.013>.

Wang, Ted, Alex Lu, and Alla Reddy. 2013. "Maintaining Key Services While Retaining Core Values: NYC Transit's Environmental Justice Strategies." *Journal of Public Transportation* 16 (1): 123-52. <http://dx.doi.org/10.5038/2375-0901.16.1.7>.

Karner, Alex, and Aaron Golub. 2015. "Comparison of Two Common Approaches to Public Transit Service Equity Evaluation." *Transportation Research Record: Journal of the Transportation Research Board* 2531: 170–79. <https://doi.org/10.3141/2531-20>.

Wednesday, February 21: Guest speaker, Ashlee McLaughlin, CUUATS

Week 7 (Feb 26, 28): Accessibility and equity: Definitions and theory

Páez, Antonio, Darren M. Scott, and Catherine Morency. 2012. "Measuring Accessibility: Positive and Normative Implementations of Various Accessibility Indicators." *Journal of Transport Geography* 25:141–53. <https://doi.org/10.1016/j.jtrangeo.2012.03.016>.

Martens, Karel, Aaron Golub, and Glenn Robinson. 2012. "A Justice-Theoretic Approach to the Distribution of Transportation Benefits: Implications for Transportation Planning Practice in the United States." *Transportation Research Part A: Policy and Practice* 46 (4): 684–95. <https://doi.org/10.1016/j.tra.2012.01.004>.

Martens, Karel. 2017. "Defining Sufficient Accessibility." Chapter 7 in *Transport Justice: Designing Fair Transportation Systems*. New York: Routledge.

Farrington, John, and Conor Farrington. 2005. "Rural Accessibility, Social Inclusion and Social Justice: Towards Conceptualisation." *Journal of Transport Geography*, 13 (1): 1–12. <https://doi.org/10.1016/j.jtrangeo.2004.10.002>.

Week 8 (Mar 5, 7): Accessibility and equity: Indicators and empirical research

Ramjerdi, Farideh. 2006. "Equity Measures and Their Performance in Transportation." *Transportation Research Record: Journal of the Transportation Research Board* 1983: 67–74. <https://doi.org/10.3141/1983-10>.

Delbosc, Alexa, and Graham Currie. 2011. "Using Lorenz Curves to Assess Public Transport Equity." *Journal of Transport Geography*, 19 (6):1252–59. <https://doi.org/10.1016/j.jtrangeo.2011.02.008>.

Grengs, Joe. 2012. "Equity and the Social Distribution of Job Accessibility in Detroit." *Environment and Planning B: Planning and Design* 39 (5):785–800. <https://doi.org/10.1068/b36097>.

Grengs, Joe. 2015. "Nonwork Accessibility as a Social Equity Indicator." *International Journal of Sustainable Transportation* 9 (1):1–14. <https://doi.org/10.1080/15568318.2012.719582>.

Week 9 (Mar 12, 14): Finance, cost, pricing, and governance

Levinson, David. 2010. "Equity Effects of Road Pricing: A Review." *Transport Reviews* 30 (1): 33–57. <https://doi.org/10.1080/01441640903189304>.

Eliasson, Jonas, and Lars-Göran Mattsson. 2006. "Equity Effects of Congestion Pricing: Quantitative Methodology and a Case Study for Stockholm." *Transportation Research Part A: Policy and Practice* 40 (7): 602–20. <https://doi.org/10.1016/j.tra.2005.11.002>.

Wachs, Martin. 2003. "A Dozen Reasons for Raising Gasoline Taxes." *Public Works Management & Policy* 7 (4): 235–42. <https://doi.org/10.1177/1087724X03253152>.

Schweitzer, Lisa, and Brian D. Taylor. 2008. "Just Pricing: The Distributional Effects of Congestion Pricing and Sales Taxes." *Transportation* 35 (6): 797–812. <https://doi.org/10.1007/s11116-008-9165-9>.

Iseki, Hiroyuki. 2016. "Equity in Regional Public Transit Finance: Tradeoffs between Social and Geographic Equity." *Journal of Urban Planning and Development* 142 (4): 1–10. [https://doi.org/10.1061/\(ASCE\)UP.1943-5444.0000328](https://doi.org/10.1061/(ASCE)UP.1943-5444.0000328).

Sciara, Gian-Claudia, and Martin Wachs. 2007. "Metropolitan Transportation Funding: Prospects, Progress, and Practical Considerations." *Public Works Management & Policy* 12 (1):378–94. <https://doi.org/10.1177/1087724X07303987>.

Sanchez, Thomas W., and James F. Wolf. 2007. "Environmental Justice and Transportation Equity: A Review of MPOs." In *Growing Smarter: Achieving Livable Communities, Environmental Justice, and Regional Equity*, edited by Robert D. Bullard, 249–71. Cambridge, MA and London, UK: MIT Press.

Week of Mar 19: Spring break, no class

Week 10 (Mar 26, 28): Active transportation

Lee, Richard J., Ipek N. Sener, and S. Nathan Jones. 2017. "Understanding the Role of Equity in Active Transportation Planning in the United States." *Transport Reviews* 37 (2): 211–26. <https://doi.org/10.1080/01441647.2016.1239660>.

Day, Kristen. 2006. "Active Living and Social Justice: Planning for Physical Activity in Low-Income, Black, and Latino Communities." *Journal of the American Planning Association* 72 (1): 88–99. <https://doi.org/10.1080/01944360608976726>.

Adkins, Arlie, Carrie Makarewicz, Michele Scanze, Maia Ingram, and Gretchen Luhr. 2017. "Contextualizing Walkability: Do Relationships Between Built Environments and Walking Vary by Socioeconomic Context?" *Journal of the American Planning Association* 83 (3): 296–314. <https://doi.org/10.1080/01944363.2017.1322527>.

Aytur, Semra A., Daniel A. Rodriguez, Kelly R. Evenson, Diane J. Catellier, and Wayne D. Rosamond. 2008. "The Sociodemographics of Land Use Planning: Relationships to Physical Activity, Accessibility, and Equity." *Health & Place* 14 (3): 367–85. <https://doi.org/10.1016/j.healthplace.2007.08.004>.

Lubitow, Amy, and Thaddeus R. Miller. 2013. "Contesting Sustainability: Bikes, Race, and Politics in Portlandia." *Environmental Justice* 6 (4):121–26. <https://doi.org/10.1089/env.2013.0018>.

McNeil, Nathan, Jennifer Dill, John MacArthur, Joseph Broach, and Steven Howland. 2017. "Breaking Barriers to Bike Share: Insights on Equity." Portland, OR: National Institute for

Transportation and Communities. http://betterbikeshare.org/wp-content/uploads/2017/07/TREC_BreakingBarriersSummaryReport_emQeiBA.pdf.

Week 11 (Apr 2, 4): Americans with Disabilities Act and Accessibility; Safety

Skim through *2010 ADA Standards for Accessible Design*, but **especially**: Sections 208 and 209 (65-68), Chapter 4 (117-148), and Section 810 (214-218).

<https://www.ada.gov/regs2010/2010ADASTandards/2010ADASTandards.pdf>

Skim "IDOT Accessible Public Right-of-Way Field Guide" (2016).

<http://idot.illinois.gov/Assets/uploads/files/About-IDOT/Laws-&-Rules/Accessible%20Public%20ROW%20Field%20Guide%20January%202016.pdf>

Clarke, Philippa J., Jennifer A. Ailshire, Els R. Nieuwenhuijsen, and Marijke W. de Kleijn – de Vrankrijker. 2011. "Participation among Adults with Disability: The Role of the Urban Environment." *Social Science & Medicine* 72 (10):1674–84.

<https://doi.org/10.1016/j.socscimed.2011.03.025>.

Nguyen-Hoang, Phuong, and Ryan Yeung. 2010. "What Is Paratransit Worth?" *Transportation Research Part A: Policy and Practice* 44 (10): 841–53. <https://doi.org/10.1016/j.tra.2010.08.006>.

Maciag, Mike. 2014. "Pedestrians Dying at Disproportionate Rates in America's Poorer Neighborhoods." August 2014. <http://www.governing.com/topics/public-justice-safety/gov-pedestrian-deaths-analysis.html>.

Goddard, Tara, Kimberly Barsamian Kahn, and Arlie Adkins. 2015. "Racial Bias in Driver Yielding Behavior at Crosswalks." *Transportation Research Part F: Traffic Psychology and Behaviour* 33: 1–6. <https://doi.org/10.1016/j.trf.2015.06.002>.

Fox, Jenn, and Leah Shahum. 2017. "Vision Zero Equity Strategies for Practitioners." http://visionzeronetWORK.org/wp-content/uploads/2017/05/VisionZero_Equity.pdf.

Week 12 (Apr 9, 11): Safety (continued); Transportation, housing, gentrification, and displacement

Review the "Housing and Transportation Affordability Index" website:

<https://htaindex.cnt.org/>.

Hamidi, Shima, Reid Ewing, and John Renne. 2016. "How Affordable Is HUD Affordable Housing?" *Housing Policy Debate* 26 (3):437–55.

<https://doi.org/10.1080/10511482.2015.1123753>.

Rayle, Lisa. 2015. "Investigating the Connection Between Transit-Oriented Development and Displacement: Four Hypotheses." *Housing Policy Debate* 25 (3):531–48.

<https://doi.org/10.1080/10511482.2014.951674>.

Blumenberg, Evelyn, and Gregory Pierce. 2014. "A Driving Factor in Mobility? Transportation's Role in Connecting Subsidized Housing and Employment Outcomes in the Moving to Opportunity (MTO) Program." *Journal of the American Planning Association* 80 (1):52–66.

<https://doi.org/10.1080/01944363.2014.935267>.

Week 13 (Apr 16, 18): Advocacy; Poverty and employment access

Greenfield, John. 2017. "Oboi Reed Launches Equiticity, a New Group to Push for Mobility Justice Nationwide." *Streetsblog Chicago* (blog). November 2, 2017.

<https://chi.streetsblog.org/2017/11/02/oboi-reed-launches-equiticity-a-new-group-to-push-for-mobility-justice-nationwide/>.

Glaeser, Edward L., Matthew E. Kahn, and Jordan Rappaport. 2008. "Why Do the Poor Live in Cities? The Role of Public Transportation." *Journal of Urban Economics* 63 (1):1–24.

<https://doi.org/10.1016/j.jue.2006.12.004>.

Ihlanfeldt, Keith R., and David L. Sjoquist. 1998. "The Spatial Mismatch Hypothesis: A Review of Recent Studies and Their Implications for Welfare Reform." *Housing Policy Debate* 9 (4):849–892. <https://doi.org/10.1080/10511482.1998.9521321>.

Blumenberg, Evelyn, and Gregory Pierce. 2017. "The Drive to Work: The Relationship between Transportation Access, Housing Assistance, and Employment among Participants in the Welfare to Work Voucher Program." *Journal of Planning Education and Research* 37 (1):66–82.

<https://doi.org/10.1177/0739456X16633501>.

Blumenberg, Evelyn, and Asha Weinstein Agrawal. 2014. "Getting Around When You're Just Getting By: Transportation Survival Strategies of the Poor." *Journal of Poverty* 18 (4):355–78.

<https://doi.org/10.1080/10875549.2014.951905>.

Grengs, Joe. 2010. "Job Accessibility and the Modal Mismatch in Detroit." *Journal of Transport Geography* 18 (1): 42–54. <https://doi.org/10.1016/j.jtrangeo.2009.01.012>.

Week 14 (Apr 23, 25): Women and immigrants

Blumenberg, Evelyn. 2016. "Why Low-Income Women in the US Still Need Automobiles." *Town Planning Review* 87 (5): 525–45. <https://doi.org/10.3828/tpr.2016.34>.

Garrard, Jan, Susan Handy, and Jennifer Dill. 2012. "Women and Cycling." In *City Cycling*, edited by John Pucher and Ralph Buehler, 211–32. Cambridge, MA: The MIT Press.

Loukaitou-Sideris, Anastasia. 2014. "Fear and Safety in Transit Environments from the Women's Perspective." *Security Journal* 27 (2): 242–56. <https://doi.org/10.1057/sj.2014.9>.

Loukaitou-Sideris, Anastasia. 2016. "A Gendered View of Mobility and Transport: Next Steps and Future Directions." *Town Planning Review* 87 (5): 547–65.

<https://doi.org/10.3828/tpr.2016.38>.

Chatman, Daniel G., and Nicholas Klein. 2009. "Immigrants and Travel Demand in the United States: Implications for Transportation Policy and Future Research." *Public Works Management & Policy* 13 (4):312–27. <https://doi.org/10.1177/1087724X09334633>.

Lovejoy, Kristin, and Susan Handy. 2011. "Social Networks As a Source of Private-Vehicle Transportation: The Practice of Getting Rides and Borrowing Vehicles among Mexican Immigrants in California." *Transportation Research Part A: Policy and Practice* 45 (4):248–257.

<https://doi.org/10.1016/j.tra.2011.01.007>.

Valenzuela, Abel, Lisa Schweitzer, and Adriele Robles. 2005. "Camionetas: Informal Travel Among Immigrants." *Transportation Research Part A: Policy and Practice* 39 (10): 895–911. <https://doi.org/10.1016/j.tra.2005.02.026>.

Week 15 (Apr 30, May 2): Transportation and the environment

Schweitzer, Lisa A., and Abel Valenzuela, Jr. 2004. "Environmental Injustice and Transportation: The Claims and the Evidence." *Journal of Planning Literature* 18 (4):383–398. <https://doi.org/10.1177/0885412204262958>.

Colvile, R. N, E. J Hutchinson, J. S Mindell, and R. F Warren. 2001. "The Transport Sector as a Source of Air Pollution." *Atmospheric Environment* 35 (9):1537–65. [https://doi.org/10.1016/S1352-2310\(00\)00551-3](https://doi.org/10.1016/S1352-2310(00)00551-3).

Houston, Douglas, Jun Wu, Paul Ong, and Arthur Winer. 2004. "Structural Disparities of Urban Traffic in Southern California: Implications for Vehicle-Related Air Pollution Exposure in Minority and High-Poverty Neighborhoods." *Journal of Urban Affairs* 26 (5):565–92. <https://doi.org/10.1111/j.0735-2166.2004.00215.x>.

Schweitzer, Lisa, and Jiangping Zhou. 2010. "Neighborhood Air Quality, Respiratory Health, and Vulnerable Populations in Compact and Sprawled Regions." *Journal of the American Planning Association* 76 (3):363–71. <https://doi.org/10.1080/01944363.2010.486623>.

Martens, Karel. 2017. "Transportation Planning Based on Principles of Justice." Chapter 8 in *Transport Justice: Designing Fair Transportation Systems*. New York: Routledge.