

CP 219: Comparative International Topics in Transportation

CCN: 14408

Time: Tuesday and Thursday, 2:00 - 3:30

Room: 314B Wurster Hall

Units: 3

Contact: robertc@berkeley.edu and abroaddus@berkeley.edu

Office hours:

Cervero – Wurster 326B, Tuesday, 4:00 – 5:00 or by appointment

Broaddus – Wurster 401, Thursday 1:00 – 2:00 or by appointment

1. Course Objectives

- Learn to use comparative frameworks and case studies to review and evaluate initiatives and innovations in the urban and regional transportation field.
- Become familiar with best-case practices in a range of contexts, including developed countries, emerging economies, and rapidly urbanizing cities, with an eye toward adapting experiences to local situations that you are or are expected to be involved in.
- Gain insights into the theories, policies, methods and implementation tools for advancing sustainable transportation and urbanization programs.
- Gain an appreciation for the challenges, complexities, and sometimes contradictions of pursuing sustainable transportation planning and practice across multiple contexts, including ecological, social, economic and institutional dimensions; discover pathways for helping to resolve conflicts and build political momentum.
- Learn about the normative roles of public and private sector involvement across urban transportation sectors, and identify ways in which successful partnerships can achieve win-win outcomes.

2. Course Description

This course covers comparative policy and planning topics in urban, regional, and rural transportation abroad. The emphasis is on drawing policy lessons regarding planning, institutional, regulatory, technological, and fiscal approaches to meeting mobility needs and wider societal objectives across a range of contexts. Case studies draw from both developed and developing countries experiences.

The aim of this international “tour” is not to identify best practices in hopes of carbon-copying experiences elsewhere. Rather we’ll examine a wide spectrum of global experiences in coming to grips with and

resolving conflicts between pressing mobility and sustainability concerns in hopes of understanding how particular policy initiatives can move any city's or region's current transportation and land-use programs in one direction or another.

The course is both topical and geographical, the two not being unrelated. Topically, subjects like transport/land-use integration, innovative finance, and transit system performance will be covered. Geographically, the course begins with a focus on urban transport issues in developed countries (i.e., OECD context), especially Europe. We'll then segue into discussions of transport in rapidly developing economies of Asia. This will be followed by coverage of transportation in the developing world, first focusing on mega-cities and then on smaller and rural settings.

Among the topics to be covered:

Urban and regional transport policies and development in Europe/OECD: traffic management and restraint, including congestion charging; new town and integrated planning in Scandinavia; "green" transportation initiatives, including Green TOD; transit technologies (high speed, dual mode, BRT); non-motorized transport in the Netherlands and Germany; car-sharing, and car-limited living; integrated fares and transit service design (e.g., *verkehrsverbunden* in Germany & Switzerland); bicycle transport and "green connectors"; transportation development in Eastern Europe.

Trends in finance, deregulation, and pricing: liberalization -- separating public assets and private delivery; road pricing and per-km tolls; transit privatization, deregulation, and managed competition; innovative financing, including value capture.

Growth and sustainability in the rapidly industrializing economies of Japan, Korea, China, Hong Kong and Singapore: high-speed rail; innovative finance; land readjustment/consolidation; urban re-generation and reclamation.

Urban transport challenges in fast-growing cities in Thailand, Vietnam, Brazil, Columbia, Chile, India and elsewhere: motorization, hyper-congestion, and urban growth; regulating emissions and vehicles; light rail and BRT; the role of informal transport; conflicts between motorized and non-motorized transport; regional growth management/jobs-housing imbalances and commuting; travel demand management and restraint; urban goods movement; safety and vulnerable road users (non-motorized and motorized two-wheel transport); social equity and affordability.

Transport challenges in rapidly urbanizing and rural areas of developing countries such as Indonesia, Philippines, Kenya and elsewhere: roads, trucks, buses, rural accessibility, and economic development; low-cost mobility and road safety planning; transport policies linked to transmigration and agrarian-based development; evaluation of rural aid programs; transport needs of women.

3. Course Format

CP 219 follows a lecture-seminar format. Class members are expected to complete all assigned readings prior to each session and participate in group discussions. The main requirements of the course are an in-class presentation (or paper), serving as a discussant, and participation in seminar discussions,

Lectures will be drawn from supplemental materials to amplify and expand upon the assigned materials. Materials in the syllabus are organized by topics, with both required and supplemental/optional readings

listed. Discussants will generally be assigned one or more supplemental readings for a following week session. Much of the course will have a comparative, case-study focus.

This course is open to graduate students and with instructor permission, upper-division undergraduates who have completed a prior transportation course (e.g., CRP 114). While basic knowledge of transportation planning is assumed, graduate students with an interest in international planning and policy are welcome to take the course as well.

4. Course Requirements

There are three requirements for completion of the course: (1) In-class presentation or written paper on a comparative surface transportation issue or topic with global relevance and applicability, ideally across two or more cities or countries (two-person teams are possible, with instructor consent and the assumption that the quality of work reflects a team effort); (2) serving as a lead discussant for one or more supplemental readings assigned to a topic (two-person teams are possible, with instructor consent and the assumption that the quality of work reflects a team effort); and (3) class attendance and participation.

In addition to the required course readings, students are encouraged to look at resource papers and reports on contemporary urban and regional transportation issues across city-regions of the world. These materials will be helpful in choosing and gaining insights on comparative case examples on topics of interest to you. Materials are available under the *Files* folder of the class's bCourses web site (bcourses.berkeley.edu/courses). Folders with materials are organized by entities such as: World Bank; UN Habitat (Sustainable Transport reports); International Transport Forum (ITS)/OECD; and GIZ (German international aid agency).

You are given a free reign to cover any comparative surface transportation topic with policy relevance outside the United States. While single-case presentations are possible, you are encouraged to look at multiple cases for a comparative analysis. Examining issues and experiences across two or more places makes policy inferences more generalizable. You can present materials on a city or country already discussed in class, however, your topic should have a different focus. All presentations or papers should, at minimum, address the following questions:

(1) What important policy or planning lessons do the cases or topics provide, particularly in terms of contemporary transportation challenges and dilemmas being grappled with in the U.S. or your own particular frame of reference (i.e., where you come from)?

(2) What are the unique social, economic, institutional, regulatory, and technological aspects of the transportation topic being addressed? What should transportation professionals and planners be sensitive to when working on transportation projects in your case area?

Presentations

Class presentations will be scheduled throughout the semester for those opting to make an in-class presentation. While it is expected that most presentations will not begin till the middle semester and many will occur during the final few sessions, do note that this presents an opportunity for students to complete this course requirement early into the semester, freeing up time for other pursuits. Regardless, you should start thinking about your research topic right away. You will be asked to forward a proposed topic, outline, and bibliography for instructor approval early in the semester, and encouraged to develop your presentation in consultation with the instructors. *NOTE: if the instructors have doubts about the quality of*

the presentation based on correspondence and discussions, you will be asked to prepare a written paper instead. This is to ensure that in-class presentations are of a high quality.

In-class presentations are to be no longer than 30 minutes in length, including time for questions and answers. That means you should plan to present for 15-20 minutes and then respond to questions and discussion. A rule of thumb is one minute per slide. To the degree possible, use photos and maps of cities or countries you're reviewing, and visual representations of data (tables, charts, figures, etc). Conclude your presentation by summarizing the most important policy insights and "take-aways" from your analysis. You should prepare a one to two-page bullet-point summary on key aspects and findings of the work, including a bibliography of sources. This summary, and a PDFs of the powerpoint presentation should be emailed to the course instructors the day before the presentation for posting on bCourses.

Papers

Students have the option of preparing a formal paper instead of making an in-class presentation. You will be asked to forward a proposed topic, outline, and bibliography for instructor approval early in the semester, and encouraged to develop the paper in consultation with the instructors. Papers should be prepared along the same lines of the presentation. Papers should be no more than 20 pages in length (single-spaced, including figures, tables, and references), with shorter lengths preferred. Papers are due in class on Thursday, December 3. One copy of the paper is to be submitted in hard-copy, and it should also be emailed to the instructors (robertc@berkeley.edu and abroaddus@berkeley.edu).

Discussants

Each class member is expected to serve as a discussant (or be part of a two-person discussant team) for one or more supplemental readings for a specific class topic. This involves reading, reflecting, and commenting (anywhere from 5 to 10 minutes) on one or more journal articles, papers, or reports that are provided as supplemental reading. You may add supplemental readings that you identify on your own, but these should be shared with the class in advance via bCourses. The role of the discussant is to stimulate class discussions on an important topic and to the degree possible, provide different and critical perspectives on issues covered in lectures. Early in the semester, a sign-up will be circulated in class so that you may choose a date and topic. One week prior to the date for which you will serve as discussant, you should email the instructors, indicating which paper(s) or material(s) will be used and providing a one paragraph "blurb" on key points that will be made.. Discussants are encouraged to review materials with a critical eye, where appropriate addressing assumptions, methods, interpretations, and policy/planning inferences of the work as well as the broader applicability of the findings.

5. Resource Materials

There are no main texts for the course. Most readings are drawn from journal articles. Four monographs/books substantially drawn upon during the semester are:

UN Habitat, *2013 Global Report: Planning and Designing for Sustainable Mobility*, Nairobi, Kenya, 2013 (<http://www.unhabitat.org/pmss/listItemDetails.aspx?publicationID=3503>; PDFs of selected chapters available on bCourses).

Dimitriou, H. and Gakenheimer, R., *Urban Transport in the Developing World*, UK: Edward Elgar Press, 2011. [Selected chapters are available in PDF on bCourses.]

Hall, P. *Good Cities, Better Lives: How Europe Discovered the Los Art of Urbanism*, London: Routledge, 2014. . [Selected chapters are available in PDF on bCourses.]

Suzuki, H., Cervero, R., and Iuchi, K. *Transforming Cities with Transit*. Washington: World Bank Press, 2013. [Available on bCourses.]

There are many other well-known books on comparative international transport [e.g., E. Vasconcellos, *Urban Transport, Environment and Equity*, 2001; R. Cervero, *The Transit Metropolis*, 1998; J. Pucher and C. Lefevre, *The Urban Transport Crisis in Europe and North America*, 1996; K. Gwilliam, *Cities on the Move: A World Bank Urban Transport Strategy Review*, 2002] and some materials from these publications will be woven into the course, however all are now more than a decade old.

There are literally hundreds if not thousands of journal articles available (mostly via the electronic journals portion of the library website) with very specific treatments of urban transport topics in particular cities or countries. Thus, for your term paper or presentation, you should consider searching for relevant materials from these journals (available electronically to UCB students and/or at the ITS Library, 4th Floor of McLaughlin Hall):

- *World Transport Policy and Practice*
- *Transport Reviews*
- *Journal of Transport and Land Use*
- *Public Transport International*
- *International Journal of Sustainable Transportation*
- *Transport Policy*
- *Journal of Transport Geography*
- *Transportation Research A*
- *Transportation Research D*
- *Transportation Research Record*
- *Transportation*
- *Journal of Public Transportation*
- *Sustainable Transport* (<http://www.itdp.org/library/sustainable-transport-magazine/>)

Also, Internet search engines allow you to focus on a very specific city, country, or issue and find the published literature on that topic, usually very up to date. Consider:

TRID: Transportation Research Integrated Database (provided by a cooperative program of TRB in the USA and IRTAD of the OECD): <http://trid.trb.org/>

Google Scholar, which includes a wide range of both scientific and non-scientific papers published on a particular topic you enter into the search engine: <http://scholar.google.com/>

A number of web sites provide useful resources on international transport topics, including:

<http://www.itdp.org>. Institute for Transportation and Development Policy (various reports on sustainable transport, including e-journal *Sustainable Transport*)

<http://www.wricities.org/>. World Resources Institute EMBARQ Urban Mobility Program (research and

practice in specific areas and cities, many publications).

<http://www.sutp.org/>. Sustainable Urban Transport Project of GIZ, the German international aid agency (many reports, training documents, technical papers, and case studies).

<http://www.eltis.org/>. European Local Transport Information Service (information sharing among European cities, including case studies of EU funded sustainable transport initiatives).

<http://www.vtppi.org/>. Victorian Transportation Policy Institute (international materials on transport economics).

<http://list.jca.apc.org/manage/listinfo/sustran-discuss>. Discussion listserv site for SUSTRAN (Sustainable Transport Action Network).

On the bCourses site for CP219, the PDFs of various reports are available under the *Files* materials. Folders are organized by entities such as: World Bank; UN Habitat (Sustainable Transport reports); International Transport Forum (ITS)/OECD; and GIZ (German aid agency). Your attention is called to the UN Habitat folder (“UN Habitat Sustainable Transport Reports”), which contains other folders of resource materials that went into preparing the 2013 Global Report on *Planning and Designing for Sustainable Mobility*. Under the “Case Study” folder are case studies of transport issues in 21 global cities. Under the “Regional Context” folder are reports on important contemporary transport issues and challenges in nine different regions of the world. The “Thematic Areas” folder has special reports on four (equity-related) topics: bridging the divide; gender/women; youth; and disabled/older persons.

For those wishing to add some quantitative analyses to the world, the IUTP *Mobility in Cities* database (along with PDFs on variable definitions) is available in Excel spreadsheet from under the class’s bSpace “Data Base” folder. The database has 2001 data on transport supply, demand, and performance for 52 global cities. Recent IUTP data on population densities and built-up areas for more than 1400 global cities are also available under the folder. Although only in hardcopy form, the appendices of UN Habitat *Global Report: Planning and Designing for Sustainable Urban Mobility*, is also chock full of data, though most at the national level. Other (mostly national-level) data can also be found from:

- World Bank (<http://data.worldbank.org/>) (Topics “Urban Development” and “Infrastructure”)
- International Transport Forum (<http://www.internationaltransportforum.org/statistics/>)
- Organization for Economic Cooperative Development (OECD) (<http://stats.oecd.org/>)
- European Union (http://ec.europa.eu/transport/media/publications/index_en.htm)
- BRTdata.org (<http://www.brtdata.org>)
- Chinabrt.org (<http://www.chinabrt.org/>)

National and sometimes city-level data are also available at the web sites of most international aid agencies (e.g., JICA, ADB, IADB, USAID).

6. Topics and Readings

The course readings are either accessible on the Internet or on the bCourses site.

Session 1, August 27

Introduction: Sustainable Mobility – An Overview (RC)

Required:

UN Habitat, *2013 Global Report*: Chapter 1: The Urban Mobility Challenge; and Chapter 2: The State of Urban Passenger Transport. Available on bCourses

Suzuki, Cervero, and Iuchi, 2013. Chapter 1: Critical Challenges Facing Cities and Urban Transport (pp. 26-48) Available on bCourses

Banister, D. The Sustainable Mobility Paradigm. *Transport Policy*, Vol. 15, 2008, pp. 73-80.

Hickman, R., Hall, P., and Banister, D. Planning more for Sustainable Mobility, *Journal of Transport Geography*, Vol. 33, 2013, pp. 210-219. Available on bCourses

Supplemental:

Newman, P., Kenworthy, J., Glazebrook, G. 2013. Peak Car Use and the Rise of Global Rail: Why This is Happening and What It Means for Large and Small Cities. *Journal of Transportation Technologies*, Vol. 3, 2013, pp. 272-287 Available on bCourses.

Cox, W. 2013. New Zealand Has the Worst Traffic: International Data. *Newgeography.com*. Available on bCourses.

Casaroli, F. 2008. The Mobility DNA of Cities. *Urban Age*. Available on bCourses.

Gossling, S. and Cohen, S. Why Sustainable Transport Policies Will Fail: EU Climate Policy in Light of Transport Taboos, *Journal of Transport Geography*, Vol. 39, 2014, pp. 197-207. Available on bCourses.

Eliasson, J. and Proost, S. Is Sustainable Transport Policy Sustainable? *Transport Policy*, Vol. 37, 2015, pp. 92-100. Available on bCourses

Metz, D. Peak Car and Beyond: The Fourth Era of Travel, *Transport Reviews*, Vol. 33, No. 3, 2013, pp. 255-270. Available on bCourses.

Sessions 2 & 3, September 1 and 3

Traffic Management and Auto-Restraints in Europe; Canada as a Bridge (RC & AB)

Required:

Whitelegg, John. Examples of Positive Changes of Complex Urban Transport Problems in Europe. *Urban Transport Development: A Complex Issue*, Berlin, Springer, 2005, Chapter 12, pp. 174-189. Available

on bCourses.

Garrick, N. and McCahill, C. Lessons from Zurich's Parking Revolution, *The Atlantic Cities*, August 8, 2012, <http://www.theatlanticcities.com/commute/2012/08/lessons-zurichs-parking-revolution/2874/>

Schepers, C., et al., Shifting from Car to Active Transport: A Systematic Review of the Effectiveness of Interventions, *Transportation Research A*, Vol. 70, 2014, pp. 264-280. Available on bCourses.

Supplemental:

Pucher, John and Lefevre, C. Chapter 2: Overview of Urban Transport Systems and Land Use Patterns in Europe and North America.; Chapter 9: Canada: Bridge between Europe and the U.S. The Urban Transportation Crisis in Europe and North America, 1996. Available on bCourses.

Beatley, T. Taming the Auto: The Promise of Car-Free Cities. *Green Urbanism*, Washington, D.C., Island Press, 2000, Chapter 5, pp. 137-165. Available on bCourses.

Cairns, S. L. Sloman, C. Newson, J. Anable, A. Kirkbride, and P. Goodwin. Smarter Choices: Assessing the Potential to Achieve Traffic Reduction Using 'Soft Measures'. *Transport Reviews*, Vol. 28, No. 5, 2008, pp. 593-618. Available on bCourses.

Mingardo, G., van Wee, B., Rye, T. Urban Parking Policy in Europe: A Conceptualization of Past and Possible Future Trends, *Transport Research Part A*, Vol. 74, 2015, pp. 268-281. Available on bCourses.

Kok, R. Six years of CO₂-based tax incentives for new passenger cars in The Netherlands: Impacts on purchasing behavior trends, *Transportation Research A*, Vol. 77, 2015, pp. 137-153. Available on bCourses.

Goodwin, P., Haas-Klau, C. and Cairns, S., Evidence on the effects of road capacity reduction on traffic levels, *Journal of Transportation Engineering and Control*, Vol. 39, No. 6, 1998, 348-354. <http://www.worldcarfree.net/resources/freesources/Evide.htm>

Pharoah, Tim and John Russell. Traffic Calming Policy and Performance: The Netherlands, Denmark and Germany. *The Town Planning Review*, 1991, Vol. 62, No. 1, pp. 79-105. Available on bCourses

ITDP. Europe's Vibrant Low Car(bon) Communities. Sections: GWL Terrein and Comparative Analysis. 2013. New York: ITDP. Available on bCourses

Schiller, P., Bruun, E. and J. Kenworthy. Exemplars of Sustainable Transportation Walking the Talk in Vancouver, Portland, Boulder, Freiburg, Seoul and Surabaya. *An Introduction to Sustainable Transportation*, London, Earthscan, 2010, Chapter 9, pp 259-295. Available on bCourses.

Session 4, September 8

Sustainable Mobility: Lessons from Europe – Transit Integration and Innovation (RC)

Required:

Newman, Peter, Timothy Beatley, and Heather Boyer. Hope for Resilient Cities; Transport. *Resilient Cities: Responding to Peak Oil and Climate Change*. Washington, D.C., Island Press, 2009, Chapter 5, pp. 86-111. Available on bCourses..

Supplemental:

Preston, J. Integration of Seamless Transport. International Transport Forum, Discussion Paper 2012-1, 2012. Available on bCourses.

Cervero, Robert. The Transit Metropolis, 1998, Chapter 8: *Making Transit Work in the Land of the Autobahn: Munich; Creating First-Class Transit with Transit-First Policies: Zurich*; Chapter 13: *Adaptive Light Rail Transit: Karlsruhe*. Available on bCourses.

Sorenson, Claus and Frode Longva. Increased Coordination in Public Transport – Which Mechanisms Are Available? *Transport Policy*, Vol. 18, 2011, pp. 117-125. Available on bCourses.

Session 5, September 10

Sustainable Mobility: Lessons from Europe – Non-Motorized Transport (AB)

Required:

Houstoun, Lawrence. Bicycle Cities. *Urban Land*, March/April, 2011, pp. 98-100. Available on bCourses.

Pucher, John and Ralph Buehler. Making Cycling Irresistible: Lessons from The Netherlands, Denmark, and Germany. *Transport Reviews* Vol. 28, No. 4, 2008, pp. 495-528. Available on bCourses.

Supplemental:

Gehl, J. The City at Eye Level, Chapter 4, *Cities for People*, 2010. Available on bCourses.

Shaheen, S., S. Guzman, and H. Zhang. Bikesharing across the globe, *City Cycling*, J. Pucher and R. Buehler, Eds, Cambridge, MA, 2012, Chapter 9, pp. 183-210. Available on bCourses.

Buehler, Ralph and John Pucher. Big City Cycling in Europe, North America and Australia, *City Cycling*, J. Pucher and R. Buehler, Eds, Cambridge, MA, 2012, Chapter 13, pp. 183-210. Available on bCourses.

Hass-Klau, Carmen. Impact of pedestrianization and traffic calming on retailing: A review of the evidence from Germany and the UK. *Transport Policy*, 1993, Vol. 1, No. 1, pp. 21-31. Available on bCourses.

Dextre, J., ed. Cyclists & Cycling Around the World: Creating Liveable & Bikeable Cities, Lima, Pontifica

Universidad Catolica, 2013. [Book on biking programs around the world; available from the instructor on one or two day loan for interested students.]

Session 6, September 15

Europe's Transit Metropolises, New Towns, Urban Regeneration, Green TODs (RC)

Required:

Hall, Peter. Chapter 10: Conserving Resources in Scandinavia: Stockholm and Copenhagen-Malmö. *Good Cities, Better Lives*. Available on bCourses.

Cervero, Robert and Cathleen Sullivan. Green TODs: Marrying Transit-Oriented Development and Green Urbanism. *International Journal of Sustainable Development & World Ecology*, Vol. 18, No. 3, 2011, pp. 210-218. Available on bCourses.

Supplemental:

Hall, Peter. Chapter 9: France Uses Transport to Develop and Regenerate Cities. *Good Cities, Better Lives* (also materials on Karlsruhe Tram-Trains, per session 4). Available on bCourses.

Cervero, Robert. *The Transit Metropolis*, Washington, D.C., Island Press, 1998. Chapter 5: *The Hand Shaped Metropolis: Copenhagen*; Chapter 11: Available on bCourses.

Mehia-Dorantes, L. and Lucas, K. Public Transport Investment and Local Regeneration: A Comparison of London's Jubilee Line Extension and the Madrid Metrosur, *Transport Policy*, Vol. 35, 2014, pp. 241-252. Available on bCourses

Gössling, S. Urban Transport Transitions: Copenhagen, City of Cyclists, *Journal of Transport Geography*, Vol. 33, 2013, pp. 196-206. Available on bCourses

Knowles, R. Transit Oriented Development in Copenhagen, Denmark: from the Finger Plan to Ørestad, *Journal of Transport Geography*, Vol. 22, 2012, pp. 251-261. Available on bCourses

Echnique, M., et al., Growing Cities Sustainably: Does Urban Form Really Matter? *Journal of the American Planning Association*, Vol. 78, No. 2, 2012, pp. 121-137. Available on bCourses.

Mees, Paul. The Zurich Model. *Transport for Suburbia: Beyond the Automobile Age*. London: Earthscan. 2010. Chapter 8, pp. 129-145. Available on bCourses.

Bertolini, L. Station area projects in Europe and beyond: towards transit oriented development? University of Amsterdam (unpublished monograph), 2011. Available on bCourses.

Le Clercq, F. and Bertolini, L. Achieving Sustainable Accessibility: An Evaluation of Policy Measures in the Amsterdam Area, *Built Environment*, Vol. 29, No. 1, 2003, pp. 36-47. Available on bCourses.

Cervero, R. Planned Communities, Self-Containment, and Commuting: A Cross-National Perspective, *Urban Studies*, Vol. 32, No. 7, 1995, pp. 1135-1162. Available on bCourses.

Session 7, September 17

Germany and the Freiburg Story (AB)

Required:

Hall, Peter. Chapter 7: Boosting Economic Growth in Germany, and Chapter 11: Freiburg: The City that Did it All. *Good Cities, Better Lives*. Available on bCourses.

Buehler, Ralph and John Pucher. Sustainable Transport in Freiburg: Lessons from Germany's Environmental Capital. *International Journal of Sustainable Transportation*, Vol., 5, 2011, pp. 43–70. Available on bCourses.

Supplemental (Freiburg):

Broaddus, Andrea. (2010) "A Tale of Two Eco-Suburbs in Freiburg, Germany: Parking Provision and Car Use." *Transportation Research Record*, Volume 2187, pp. 114-122. Washington, DC. Available on bCourses.

Oyler, N. A Mobility Wunderkind: Transport Lessons from Germany. *Planning*, Vol. 79, No. 10, 2013. Available on bCourses.

Supplemental (Other German Context):

Pucher and S. Kurth, Verkehrsverbund: The Success of Regional Public Transport in Germany, Austria, and Switzerland, *Transport Policy*, Vol. 2, No. 4, 1996, pp. 279-291. Available on bCourses.

Buehler, Ralph and John Pucher. Making Public Transport Financially Sustainable. *Transport Policy*, Vol. 18, No. 1, 2011, pp. 128-136. Available on bCourses.

Buehler, R. and Pucher, J. Demand for Public Transport in Germany and the USA: An Analysis of Rider Characteristics, *Transport Reviews*, Vol. 32, No. 5, 2012, pp. 541– 567. Available on bCourses.

Lanzendorf, M. and Busch-Geertsema, A. The Cycling Boom in Large German Cities—Empirical Evidence for Successful Cycling Campaigns, *Transport Policy*, Vol. 36, 2014, pp. 26-33. On bCourses.

Session 8, September 22

Central and Eastern Europe: Transitional Economies (RC)

Required:

Suchorzewski, W. *Sustainable Urban Mobility in Transitional Economies*, UN Habitat, Regional study prepared for Sustainable Urban Mobility: Global Report on Human Settlements, 2013. Available on bCourses.

Pucher, J. and Buehler, R. *Transport Policies in Central and Eastern Europe*. Rutgers University,

monograph, 2005. Available on bCourses.

Supplemental:

Rosik, P., Stepniak, M., Komornicki, T. The Decade of the Big Push to Roads in Poland: Impact on Improvement in Accessibility and Territorial Cohesion from a Policy Perspective, *Transport Policy*, Vol. 37, 2015, pp. 134-146. Available on bCourses.

Mitric, S. Reorienting World Bank Involvement with Urban Transport in Europe and Central Asia, *Transportation Research Record* 1846, 2003, pp. 1-8. Available on bCourses.

Taylor, Z. Recent Changes in Polish Transport Policy, *Transport Reviews*, Vol. 24, No. 1, 2004, pp. 19-32. Available on bCourses.

Pucher, J., Transformation of Transport in the Czech Republic, *Transport Policy*, Vol. 6, 1999, pp. 225–236. Available on bCourses.

Session 9, September 24

Trends in Transport Finance: Value capture, Deregulation, Concessions, Managed Competition, Public-Private Partnerships (AB)

Required:

UN Habitat, Chapter 8: The Economics and Financing of Urban Mobility, 2013. Available on bCourses.

Suzuki et al, *Financing Transit-Oriented Development with Land Values*, Washington DC:,2015. Available on bCourses.

Rodriguez, D. Expanding the Urban Transportation Infrastructure Through Concession Agreements: Lessons from Latin America, *Transportation Research Record* 1659, 1999, pp. 3-10. Available on bCourses.

Supplemental:

Gomez-Ibañez, J. and Meyer, J. *Going Private: The International Experience with Transport Privatization*, Washington, D.C., The Brookings Institution, 1993, pp. 1-36. Available on bCourses.

Ida, Y. and Talit, G. Regulation of Public Bus Services; The Israeli Experience, *Transport Policy*, Vol. 42, 2015, pp. 156-165. Available on bCourses

White, Peter, The conflict between competition policy and the wider role of the bus industry in Britain, *Research in Transport Economics*, vol. 29, 2010, pp. 152-158. Available on bCourses.

Preston, John. *The Deregulation and Privatization of Public Transport in Britain: Twenty Years On*. Berkshire (U.K.), Transport Research Foundation, 2004, pp. 1-16. Available on bCourses.

Cox, W. Love, J., Newton, N. Competition in Public Transport: International State of the Art, see: <http://www.publicpurpose.com/t5.htm>

World Bank, Urban Transport Pricing and Financing, *Cities on the Move: A World Bank Urban Transport Strategy Review*, Washington, D.C., 2002, Chap. 10. Available on bCourses.

Session 10, September 29

Transport Pricing: Congestion charging, per-km tolling, parking (AB)

Required:

Albalade, Daniel and Germa Bel. What Local Policy Makers Should Know about Urban Road Charging: Lessons from Worldwide Experience. *Public Administration Review*, 2009, pp. 962-975. Available on bCourses.

Niskanen, Esko and Chris Nash. Road Pricing in Europe – A Review of Research and Practice. *Road Pricing, the Economy and the Environment*, ed. C. Jensen, 2008, Chap 2, pp. 5-27. Available on bCourses.

Supplemental:

Leape, Jonathan. The London Congestion Charge. *Journal of Economic Perspectives*, 2006, Vol. 20, No. 4, pp. 157-176. Available on bCourses.

Goh, Mark. Congestion management and electronic road pricing in Singapore. *Journal of Transport Geography*, 2002, Vol. 10, pp. 29-38. Available on bCourses.

Givoni, M. Re-assessing the Results of the London Congestion Charging Scheme, *Urban Studies*, 2011, pp. 1-12. Available on bCourses.

Eliasson, J. and Jonsson, L. The unexpected “yes”: Explanatory factors behind the positive attitudes to congestion charges in Stockholm. *Transport Policy*, Vol. 18, 2011, pp. 636–647. Available on bCourses.

Wang, Rui and Quan Yuan. Parking practices and policies under rapid motorization: The case of China. *Transport Policy*, Vol. 30, pp. 109-116. Available on bCourses.

Broadbuss, Andrea. Tolling Heavy Goods Vehicles: Overview of European Practice and Lessons from the German Experience. *Transportation Research Record*, 2008, Volume 2066, pp. 106-113. Available on bCourses.

Levinson, David. Equity Effects of Road Pricing: A Review. *Transport Reviews*, 2010, Vol. 30, No. 1, pp. 33-57. Available on bCourses.

TRCP Report 95. Road Pricing. 2003. Washington, DC. Available on bCourses.

GIZ. Economic Instruments. *Sustainable Transport: A Sourcebook for Policy-Makers in Developing Cities*. Module 1d. 2004. Available on bCourses.

Session 11, October 1

Freight Transport and Urban Logistics (AB)

Required:

UN Habitat, Chapter 4: Urban Goods Transport, 2013. Available on bCourses.

Giuliano, Genevieve and Laetitia Dablanc. Approaches to Managing Freight in Metropolitan Areas. *NCFRP Report 23: Synthesis of Freight Research in Urban Transportation Planning*, Appendix A. 2013. Available on bCourses.

Supplemental:

Schiller, P., Bruun, E. and J. Kenworthy. Moving Freight, Logistics and Supply Chains in a More Sustainable Direction. *An Introduction to Sustainable Transportation*, London, Earthscan, 2010, Chapter 5, pp 123-152. Available on bCourses.

Dablanc, Laetitia and Dina Rakotonarivo. The impacts of logistics sprawl: How does the location of parcel transport terminals affect the energy efficiency of goods' movement in Paris and what can we do about it? *Procedia Social and Behavioral Sciences*, 2010, Vol. 2, pp. 6087-6096. Available on bCourses.

Emo, J., L. Schipper, and L. Thompson. We keep on truckin': Trends in freight energy use and carbon emissions in 11 IEA countries. *Energy Policy*, 2012, Vol. 45, pp. 327-341. Available on bCourses.

Broadbent, A., M. Browne and J. Allen. Sustainable freight: Impacts of the London congestion charge and low emissions zone. *Transportation Research Record*, 2015, forthcoming. Available on bCourses.

Lee, S., D. Song, and C. Decruet. A tale of Asia's world ports: The spatial evolution in global hub port cities. *Geoforum*, 2008, Vol. 39, pp. 372-385. Available on bCourses.

Session 12 & 13, October 6 and 8

Transit/Land-Use Integration, Creative Finance, and High Speed Rail Investments: East Asia's Tiger Economies – Tokyo, Hong Kong, Singapore (RC)

Required:

Cervero, Robert. Transit Transformations – Hong Kong and Tokyo. *Physical Infrastructure Development: Balancing the Growth, Equity and Environmental Imperatives*, W. Ascher and C. Kruupp, eds. Chapter 6. New York, Palgrave Macmillan, 2010. Available on bCourses.

Cervero, R. and Murakami, J. Rail and Property Development in Hong Kong: Experiences and Extensions, *Urban Studies*, Vol. 46, No. 10, pp. 2019-2043, 2009. Available on bCourses.

Cervero, R. *The Transit Metropolis*, Washington, D.C., Island Press, 1998. Chapter 6: *The Master Planned Transit Metropolis: Singapore*. Available on bCourses.

Supplemental:

Lo, Hong, Siman Tang, David Wang. Managing the accessibility on mass public transit: The case of Hong Kong. *Journal of Transport and Land Use*, Vol. 1, No. 2, 2008, pp. 23-49. Available on bCourses.

May, A. Singapore: The Development of a World Class Transport System, *Transport Reviews*, 2007, Vol. 79-101. Available on bCourses.

Nash, C. When to Invest in High Speed Rail. International Transport Forum, Discussion Paper 2013-25, 203. Available on bCourses.

Givoni, M. Development and Impact of the Modern High-speed Train: A Review *Transport Reviews*, Vol. 26, No. 5, 593–611, September 2006. Available on bCourses.

Chu, S. Car Restraint Policies and Mileage in Singapore, *Transportation Research A*, Vol 77, 2015, pp.404-412. Available on bCourses

Han, S. Managing Motorization in Sustainable Transport Planning: the Singapore Experience, *Journal of Transport Geography*, Vol. 18, 2010, pp. 314-321. Available on bCourses

Session 14, October 13

Transport and Urban Regeneration: Rapidly Growing Economies (RC)

Required:

Cervero, Robert. Urban Reclamation and Regeneration in Seoul, South Korea. *Physical Infrastructure Development: Balancing the Growth, Equity and Environmental Imperatives*, W. Ascher and C. Kruupp, eds. Chapter 7 New York, Palgrave Macmillan, 2010. Available on bCourses.

Kang C. and Cervero, R. From Elevated Freeway to Urban Greenway: Land Value Impacts of Seoul, Korea 's CGC Project, *Urban Studies*, Vol. 46, No. 13, 2009, pp. 2771-2794. Available on bCourses.

Supplemental:

Hayashi, Y. Compact City as a Means of Long-Term Urban Regeneration, *International Journal of Urban Science*, Vol. 7, No. 2, 2003, pp. 131-136. Available on bCourses.

Cervero, R. and Kang, C. Bus Rapid Transit Impacts on Land Uses and Land Values in Seoul, Korea. *Transport Policy*, Vol. 18, pp. 102-116, 2011. Available on bCourses.

Session 15, October 15

Motorization and the Environment in Developing Cities (RC & AB)

Required:

Kutzbach, M. Megacities and Megatraffic. *Access*, No. 37, Fall 2010, pp. 31-35. Available on bCourses.

Kenworthy, Jeffrey. An International Comparative Perspective on Fast-Rising Motorization and Automobile Dependence. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, H. Dimitrioiu and R. Gakenheimer, eds., 2011. Chapter 4, pp. 71-112. Available on bCourses.

UN Habitat, Chapter 7: Urban Mobility and the Environment. *Planning and Designing for Sustainable Urban Mobility*, Nairobi, 2013. Available on bCourses.

Supplemental:

Newman, P. and Kenworth, J. Emerging Cities and Automobile Dependence, Chapter 3, *The End of Automobile Dependence: How Cities are Moving Beyond Car-Based Planning*, Washington DC, Island Press, 2015, pp. 77-103. Available on bCourses.

- Zhao, P. Private Motorised Urban Mobility in China's Large Cities: the Social Causes of Change and an Agenda for Future Research, *Journal of Transport Geography*, Vol. 14, 2014, pp. 53-63. Available on bCourses.
- Davis, L. and Kahn, M. Cash for Clunkers? The Environmental Impact of Mexico's Demand for Used Vehicles, *Access* Vol. 38, 2011, pp. 15-21. Available on bCourses.
- Zegras, C. and Hanna, V. Dynamics of Automobile Ownership Under Rapid Growth: Case Study of Santiago, Chile. *Transportation Research Record*, No. 2323, 2012, pp. 80–89. Available on bCourses.
- Pucher, J., Peng, Z., Mittal, N., Zhu, Y., Korattyswaroopam, N. Urban Transport Trends and Policies in China and India: Impacts of Rapid Economic Growth *Transport Reviews*, Vol. 27, No. 4, 2007, pp. 379–410. Available on bCourses.
- Replogle, M. Environmental Evaluation in Urban Transport. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitriou and Gakenheimer, eds. Chapter 11, pp. 305-331. Available on bCourses.
- Nakamura, K. and Hayashi, Y. Strategies and Instruments for Low-Carbon Urban Transport: An International Review on Trends and Effects. *Transport Policy*, Vol. 29, 2013, pp. 264-274. Available on bCourses.
- Mohan, D. Urban transport: moving from the 19th century to the 21st century concerns. *Cyprus*, 3 September - 2 October 2009. Available on bCourses.
- Ingram, G. and Liu, Z. Determinants of Motorization and Road Provision, *Essays in Transportation Economics and Policy*, J. Gomez-Ibanez, W. Tye, and C. Winston, eds., Washington, Brookings Institute, Chpt. 10, pp. 325-356, 1999. Available on bCourses. (monograph of book chapter)

Session 16, October 20

Transport Demand Management Strategies in Developing Cities (AB)

Required:

- Cervero, Robert. *The Transit Metropolis*, Beginning of Chapter 3 (pp. 62-72), Washington, D.C.: Island Press, 1998. Available on bCourses.
- Mahendra, Anjali. Options for travel demand management: traffic bans versus pricing. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitriou and Gakenheimer, eds., 2011. Chapter 18, pp. 519-547. Available on bCourses.

Supplemental:

- Boquet, Yves. Can western mobility solutions apply to East Asia's cities? Unpublished work. 2009, Paris, France. Available on bCourses.
- Kasipalliai, J. and Chan, P. Travel Demand Management: Lessons from Malaysia, *Journal of Public Transportation*, Vol. 11, No 3., 2008, pp. 41-56. Available on bCourses

Broaddus, Andrea, T. Litman and G. Menon. (2009) “Transportation Demand Management Training Manual.” German Federal Enterprise for International Cooperation (GIZ), Sustainable Urban Transport Project (think tank), 118 pp. Eschborn, Germany. Available on bCourses.

GIZ. Mobility Management. *Sustainable Transport: A Sourcebook for Policy-Makers in Developing Cities*. Module 2b. 2004. Available on bCourses.

Session 17, October 22

Transit Oriented Development in Rapidly Growing Cities (RC)

Required:

Cervero, Robert. Public Transport and Sustainable Urbanism: Global Lessons. *Transit Oriented Development: Making It Happen*, C. Curtis et al., eds. Surrey, England, Ashgate, Chapter 3, pp. 23-35. Available on bCourses.

Suzuki, H., R. Cervero and K. Iuchi. Integrating Transit and Urban Development in Cities in the Developing World. *Transforming Cities with Transit*, Chapter 3. 2013. Washington DC: The World Bank. Available on bCourses.

Supplemental:

Chen, X. Prospects of Transit-Oriented Development in China, *Management Research and Practice*, Vol. 2 Issue 1, 2010, pp. 83-93. Available on bCourses.

Sung, H. and Oh, J. Transit-oriented Development in a High-Density City: Identifying its Association with Transit Ridership in Seoul, Korea, *Cities*, Vol. 28, 2011, pp. 70-82. Available on bCourses.

Yang, Perry Pei-Ju and Seng How Lew. An Asian Model for TOD: The Planning and Integration of Singapore. *Transit Oriented Development: Making It Happen*, C. Curtis et al., eds. Surrey, England, Ashgate, Chapter 8, pp. 91-106. Available on bCourses.

Zhang, M. Chinese edition of transit-oriented development. *Transportation Research Record: Journal of the Transportation Research Board* 2038, 2007, pp.120–7. Available on bCourses.

Energy Foundation and Calthorpe Associates. *Design Manual for Low-Carbon Cities: Sustainable Cities China*. Beijing, 2011. Available on bCourses.

Session 18, October 27

Transportation and Land Use in Developing and Rapidly Emerging Economies (RC)

Required:

Cervero, R. Linking Urban Transport and Land Use in Developing Countries. *Journal of Transport and Land Use*, Vol. 6, No. 1, 2013, pp. 7-24. Available on bCourses.

Gakenheimer, R. Land use and Transport in Rapidly Motorizing Cities: Contexts of Controversy, *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitriou and Gakenheimer, eds. 2011, Chpt. 2, pp. 40-68. Available on bCourses.

Magalhaes, F. and Duran, M. Low Carbon Cities: Curitiba vs. Brasilia. 45th ISOCARP Congress, 2009. Available on bCourses.

Supplemental:

UN Habitat, Chapter 5: Mobility and Urban Form, *Planning and Designing for Sustainable Urban Mobility*, Nairobi, 2013. Available on bCourses.

Dimitriou, H. Transport and City Development: Understanding the Fundamentals. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, H. Dimitriou and R. Gakenheimer, eds. Chapter 2, pp. 8-39. Available on bCourses.

Mercier, J., Duarte, F., Domingue, J., Carrier, M. Understanding Continuity in Sustainable Transport Planning in Curitiba *Urban Studies*, Vol. 52, No. 8, 2015, pp. 1454-1470. Available on bCourses.

Feng, J., Dijst, M., Prillwitz, J., and Wissink, B. Travel Time and Distance in International Perspective: A Comparison between Nanjing (China) and the Randstad (The Netherlands). *Urban Studies*, Vol. 50, No. 14, 2013, p. 2993-30130. Available on bCourses.

Pan, H., Shen, Q., and Zhang, M. Influence of Urban Form on Travel Behaviour in Four Neighborhoods in Shanghai. *Urban Studies* Vol. 46, No. 2, 2009. pp. 275-295. Available on bCourses.

Cervero, R. and Day, J. Suburbanization and Transit Oriented Development in China, *Transport Policy*, Vol. 15, 2008, pp. 315-323. Available on bCourses.

Yang, J., Shen, Q., Shen, J. and He, C. Transport Impacts of Clustered Development in Beijing: Compact Development versus Overconcentration, *Urban Studies*, Vol. 49, No. 6, 2012, pp. 1315-1331. Available on bCourses.

Bocharegjo, J., Portilla, I. and Perez, M. 2013. Impacts of TransMilenio on Density, Land Use, and Land Value in Bogotá. *Research in Transportation Economics* 40: 78-86. Available on bCourses.

Zhang, M. and Wang, L. The impacts of mass transit on land development in China: The case of Beijing *Research in Transportation Economics*, Vol. 40, Vol .40: 124-133. Available on bspace

Session 19, October 29

Urban Transport Institutions, Politics, and Project Appraisals in Developing Cities (AB)

Required:

UN Habitat, Chapter 9: Institutions and Governance for Urban Mobility, *Planning and Designing for Sustainable Urban Mobility*, Nairobi, 2013. Available on bCourses.

Dotson, E. Institutional and Political Support for Urban Transport. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, H. Dimitriou and R. Gakenheimer, eds. 2011, Chapter 10, pp. 8-39. Available on bCourses.

Hook, W. Use and Abuse of Economic Appraisal of Urban Transport Projects. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitriou and Gakenheimer, eds. Chapter 13, pp. 359-385. Available on bCourses.

Supplemental:

Cervero, R. *Beyond Travel-Time Savings: An Expanded Framework for Evaluating Urban Transport Projects*. Washington, 2011 Available on bCourses.

Newman, P. and Kenworthy, J. Transportation Planning: Hindrance or Help? Chapter 5, *The End of Automobile Dependence: How Cities are Moving Beyond Car-Based Planning*, Washington DC, Island Press, 2015, pp. 141-167. Available on bCourses.

Zhao, P. The implications of and institutional barriers to compact land development for transportation: Evidence from Beijing, *Journal of Transport and Land Use*, Vol. 6, No. 3, 2013, pp. 29-42. Available on bCourses.

Banister, David. *Transport Planning*, Chapter 7, pp. 163-206, London: Spon, 2002. Available on bCourses.

Kenny, C. Transport Construction, Corruption and Developing Countries. *Transport Reviews*, Vol. 29, No. 1, 2009, pp. 21–41. Available on bCourses.

Vigar, Geoff. Explaining policy change: The rise and fall of a policy paradigm. *The Politics of Mobility: Transport, the Environment, and Public Policy*, Chapter 8, pp. 157-188, London: Spon Press, 2002. Available on bCourses.

Metz, D. 2008. The Myth of Travel Time Savings. *Transport Reviews*, No. Vol. 28, No. 3, pp. 321-336.
Available on bCourses

Dimitriou, H. and Trueb, O. Transportation Megaprojects, Globalization, and Place-Making in Hong Kong and South China, *Transportation Research Record*, Vol. 1924, 2005, pp. 59-68. Available on bCourses

Session 20, November 3

Urban Rail Systems: Light Rail and Metro (RC)

Required:

UN Habitat, Chapter 3: Metro, Light Rail and BRT, *Planning and Designing for Sustainable Urban*

Mobility, Nairobi, 2013. Available on bCourses.

Kenworthy, J. An International Review of the Significance of Rail in Developing 21 More Sustainable Urban Transport Systems in Higher Income Cities. *World Transport Policy and Practice*, Vol. 14, No. 2, 2008. Available on bCourses.

Supplemental:

World Bank, Mass Rapid Transit, *Cities on the Move: A World Bank Urban Transport Strategy Review*, Washington, 2002, Chapter 8. Available on bCourses.

NOTE: The readings assigned for Session 22 were split between Session 21 on November 5 and Session 24 on November 17.

Session 21, November 5

Bus Rapid Transit and Sustainable Mobility in Developing Cities AND Informal Transport/Paratransit (RC)

Required:

Hook, W., From Curitiba to Guangzhou: 30 Years of Bus Rapid Transit, *Sustainable Transport*, No. 26, Winter 2015, pp. 16-17. [Entire issue available on bCourses.]

Wright, L. Bus rapid transit: a review of recent advances. *Urban transport in the developing world: a handbook of policy and practice*, H. Dimitriou and R. Gakenheimer, eds. Cheltenham, U.K.: Edgar Elgard, 2011, pp. 421-455. Available on bCourses.

Cervero, R. and Dai, D. BRT TOD: Leveraging Transit Oriented Development with Bus Rapid Transit Investments, *Transport Policy*, Vol. 36, 2014, pp. 127-138. Available on bCourses.

Cervero, Robert and Aaron Golub. Informal Transport: A Global Perspective. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, H. Dimitriou and R. Gakenheimer, eds., Cheltenham, Edward Elgar, 2011. Chapter 17, pp. 488-517. Available on bCourses.

Supplemental:

Suzuki, H., Cervero, R., and Iuchi, K. 2013. *Transforming Cities with Transit: Transit and Land-Use Integration for Sustainable Urban Development*. Washington: The World Bank. Available on bCourses.

Cervero, R. *Bus Rapid Transit: An Efficient and Competitive Mode of Public Transport*. Brussels: European Automobile Manufacturers Association, 20th ACEA Scientific Advisory Group Report, 2013. Available on bCourses.

Alpkokin, P. and Ergun, M. Istanbul Metrobüs: First Intercontinental Bus Rapid Transit, *Journal of Transport Geography*, Vol. 24, 2012, pp. 58-66. Available on bCourses.

Gilbert, A. Bus Rapid Transit: Is Transmilenio a Miracle Cure? *Transport Reviews*, Vol. 28, No. 4, 2008, pp. 439–467. Available on bCourses.

Deng, T. and Nelson, J. Bus Rapid Transit implementation in Beijing: An evaluation of performance and impacts. *Research in Transportation Economics*, Vol. 39, 2013, pp. 108-113. Available on bCourses.

Session 22, November 10

Vulnerable Road Users; Safety; Non-motorized modes in developing cities (AB)

Required:

Pendakur, V. Non-Motorized Urban Transport as Neglected Modes. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitrioiu and Gakenheimer, eds., Chapter 8 pp. 203-231. Available on bCourses.

Aeron-Thomas and Jacobs, G. Road Crashes and Low-Income Cities; Impacts and Options. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitrioiu and Gakenheimer, eds., Chapter 14, pp. 386-420. Available on bCourses.

Calming Traffic on Bogota's Killing Streets, February 2008, Vol. 319, *Science*, www.sciencemag.org. Available on bCourses.

Supplemental:

Haworth, N. Powered Two Wheelers in a Changing World: Challenges and Opportunities. *Accident Analysis and Prevention*, Vol. 44, 2012, pp. 12– 18. Available on bCourses.

Kopp, P. The unpredicted rise of motorcycles: A cost benefit analysis. *Transport Policy*, Vol. 18, 2011, pp. 613–622. Available on bCourses.

Cervero, R., Sarmiento, O., Jacoby, E., Gomez, L., and Neiman, A. Influences of Built Environments on Walking and Cycling: Lessons from Bogotá, *International Journal of Sustainable Transport*, Vol. 3, 2009, pp. 203-226. Available on bCourses.

Kumar, Santosh and William Ross. Effects of pedestrianisation on the commercial and retail areas: Study in Khao San Road, Bangkok. *World Transport Policy and Practice*, 2006, Vol. 13, No. 1, pp. 38-50. Available on bCourses.

Tiwari, R. Designing a Safe Walking City. *Urban Design International*, 2014, pp. 1-14. Available on bCourses.

Wegman, F. Zhang, F., Dijkstra, A. How to make more cycling good for road safety? *Accident Analysis and Prevention*, Vol. 44, 2012, pp. 19-29. Available on bCourses.

GIZ. Two- and Three- Wheelers. *Sustainable Transport: A Sourcebook for Policy-Makers in Developing Cities*. Module 2c. 2004. Available on bCourses.

GIZ. Non-Motorized Transport. *Sustainable Transport: A Sourcebook for Policy-Makers in Developing Cities*. Module 3d. 2004. Available on bCourses..

Session 23, November 12

Transport Equity: Access and Affordability; The Mobility Disadvantaged (AB)

Required:

Godard, Xavier. Poverty and Urban Mobility. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, H. Dimitrioiu and R. Gakenheimer, eds., Cheltenham, Edward Elgar, 2011. Chapter 9, pp. 232-261. Available on bCourses.

UN Habitat, Chapter 6: Equitable Access to Urban Mobility, *Planning and Designing for Sustainable Urban Mobility*, Nairobi, 2013. Available on bCourses.

Supplemental:

Vasconcellos, Eduardo. Equity Evaluation of Urban Transport. *Urban Transport in the Developing World: A Handbook of Policy and Practice*, Dimitrioiu and Gakenheimer eds., 2011. Chapter 12, pp. 333-358. Available on bCourses.

Elias, W., Benjamin, J., and Shiftan, Y. Gender Differences in Activity and Travel Behavior in the Arab World, *Transport Policy*, Vol. 55, 2015, pp. 19-27. Available on bCourses.

Gauthier, A., Housing, Transport, and the Fight for Equitable Cities, *Sustainable Transport*, No. 25, Winter 2014, pp. 24-27. Available on bCourses

World Bank, Urban Transport and Poverty Reduction, *Cities on the Move: A World Bank Urban Transport Strategy Review*, Washington, D.C., 2002, Chp. 3. Available on bCourses

Cervero, Robert. Progressive Transport and the Poor: Bogotá's Bold Steps Forward. *Access*, No. 27, 2005, pp. 24-30. Available on bCourses.

Session 24, November 17

Rural Transport in the Developing World AND Informal Transport/Paratransit (RC)

Required:

Njenga, P. and A. Davis, Drawing the Road Map to Rural Poverty Reduction, *Transport Reviews*, Vol. 23, No. 2, 2003, pp. 217-241. Available on bCourses.

Supplemental:

Leinbach, T. Transport and Third World Development: Review, Issues, and Prescription, *Transportation Research* Vol. 29A, No. 5, 1995, pp. 337-344. Available on bCourses.

Olsson, J. Improved road accessibility and indirect development effects: evidence from rural Philippines. *Journal of Transport Geography*, Vol. 17, 2009, pp. 476-483. Available on bCourses.

Kerali, H. Economic Appraisal of Road Projects in Countries with Developing and Transition Economies, *Transport Reviews*, Vol. 23, No. 3, 2003, pp. 249-262. Available on bCourses.

Van de Walle, D. Choosing Rural Road Investments to Help Reduce Poverty. *World Development*, Vol. 30, No. 4, 2002, pp. 575-589. Available on bCourses.

UITP/TransAfrica. Report on Statistical Indicators of Public Transport Performance in Africa, 2010. Available on bCourses.

Cervero, R. Informal Transit: Learning from the Developing World, *Access*, No. 18, 2001, pp. 15-22. Available on bCourses.

Close

Toward Sustainable Mobility Futures (closing comments; optional reading)

UN Habitat, Chapter 10: Toward Sustainable Mobility, *Planning and Designing for Sustainable Urban Mobility*, Nairobi, 2013. Available on bCourses..

Zegras, C. Mainstreaming Sustainable Urban Transport: Putting the Pieces Together, Chapter 19, *Urban Transport in the Developing World: A Handbook of Policy and Practice*, H. Dimitrioiu and R. Gakenheimer, eds., Cheltenham, Edward Elgar, 2011. Chapter 9, pp. 232-261. Available on bCourses.

NOTE: Students are required to attend four out of the five dates for student presentations.

Session 25, November 19
Student Presentations

Session 26, November 24
Student Presentations

Session 27, December 1
Student Presentations

Session 28, December 3
Student Presentations

Final session, December 15
Student Presentations