

DEPARTMENT OF GEOGRAPHY - UNIVERSITY OF TORONTO
GGR 424 - TRANSPORTATION GEOGRAPHY AND PLANNING
WINTER 2016
TUESDAY 11AM-1PM, ROOM SSH5017A

Instructor:

Professor Matti Siemiatycki
Sidney Smith Hall, 5041
Phone: (416) 946-5145
Email: matti.siemiatycki@utoronto.ca
Office Hours: Wednesdays, 11-1PM

Course Description

In 2008, for the first time in human history, the United Nations reported that more than half of the world's population resided in cities. This dramatic pattern of urbanization has been accompanied by profound transformations in the way that people and goods move in and between cities. Against this backdrop, with citizens, businesses and politicians alike, transportation consistently rates as among the top issues on the urban agenda.

This course explores the transportation of people and goods in cities, from a geographic and planning perspective. The first part of the course documents the evolutions in the technologies and patterns of urban transportation, and situates the topic within a global context. In particular, the tight connections between transportation, land use, economic development, environmental sustainability, social inclusion and human health are uncovered. The second part of the course examines the analytical techniques used to plan transportation projects and public policies, and highlights the implications of specific investment choices. The third part of the course focuses on the most topical transportation related issues facing cities today. These include the causes and cures of road congestion; the approaches to paying for new infrastructure investments, the future of public transit, and the viability of providing transportation alternatives to the private automobile in suburban communities. Overall, this course will situate transportation issues within the context of a highly contested and politicized urban environment.

A Few Ground Rules:

1. Please use e-mail judiciously; do not ask questions over e-mail that cannot be answered with one or two sentences. Longer questions are best answered during office hours.
2. Assignment Submissions: All assignments are to be submitted in hard copy in class on the specified due date.
3. Late Penalty: Five (5) percentage points (of assignment grade) will be deducted for each day (Saturday and Sunday count as one day each) on all late assignments. Assignments will not be accepted later than one week after the due date. *Assignments by e-mail or fax will not be accepted.* All late assignments must be submitted to the assignment drop box located outside

the Department of Geography main office, room SSH 5047. *Please note that the drop box is only available until 5PM on weekdays.*

4. Blackboard: This course has a Blackboard site where PowerPoint Slides from class lectures, and any announcements will be posted. Please make use of Blackboard as a useful reference point for this course.
5. Plagiarism is a serious academic offence. Any cases of plagiarism or cheating on exams will be handled in accordance with the University of Toronto's policies.

Evaluation

1. Travel Diary Assignment; 35% (February 9)
2. Current Issues Reading Response; 15% (February 23)
3. Term Assignment; 40% (April 5)
4. Class Participation; 10% (Entire course)

Required Readings

A compilation of journal articles serve as the required reading for this course. They have been selected to inform the topics discussed in class. In order to save paper, the readings have not been compiled in a printed course pack. Each article may be easily downloaded through the University of Toronto library website.

Course Lecture Outline

FOUNDATIONS

Week 1: Introduction: Concepts, Challenges and Opportunities

Week 2: History: The Regional Transportation System in a Global Context

Newman, P. (1996). Reducing automobile dependence. *Environment & Urbanization*, 8(1), pp. 67-92.

Pucher, J., et al. (2007). Urban Transport Trends and Policies in China and India: Impacts of Rapid Economic Growth. *Transport Review*. 27(4), pp. 379-410.

Week 3: Transportation, Land Use and Sustainability

Jabareen, Y.R. (2006) Sustainable Urban Forms: Their Typologies, Models, and Concepts. *Journal of Planning Education and Research*. 26, pp.38-52.

Statistics Canada. (2008). Commuting Patterns and Places of Work of Canadians, 2006 Census. Ottawa: Ministry of Industry. Pp. 16-40.

<http://www12.statcan.ca/english/census06/analysis/pow/pdf/97-561-XIE2006001.pdf>

Week 4: Transportation, Social Equity and Health

Evelyn Blumenberg (2004), "En-gendering Effective Planning: Spatial Mismatch, Low- Income Women, and Transportation Policy", *JAPA*, Vol. 70, No. 3, Summer 2004. APA, p.269.

Jean Andrey, (2000), "The Automobile Imperative: Risks of mobility and mobility related risks", *The Canadian Geographer*, Vol. 44, No. 4, 2000.

Frank, L.D., Sallis, J.F. Conway, T.L., Chapman, J.L., Saelens, B.E., and Bachman, W. (2006). Many Pathways from Land Use to Health: Associations between Neighborhood Walkability and Active Transportation, Body Mass Index, and Air Quality", *Journal of the American Planning Association*, 72(1), pp. 75-87.

TRANSPORTATION POLICY AND DECISION MAKING

Week 5: Transportation project appraisal – Decision Making Framework (Evidence Based Policy; Impact Assessments; Demand Modeling)

Hatzopoulou, M. and Miller, E.J. (2008). Institutional integration for sustainable transportation policy in Canada. *Transport Policy*. 15, 149–162.

Week 6: Transportation Mega Projects - Great Planning Disasters?

Flyvbjerg, B. et al. (2002). Underestimating Costs in Public Works Projects: Error or Lie? *Journal of the American Planning Association*. 68(3), Pp. 279-295.

Siemiatycki, M. (2006). Message in a Metro - Building Urban Rail Infrastructure and Image in Delhi India. *International Journal of Urban and Regional Research*, 30:2, 277-292.

CURRENT ISSUES IN TRANSPORTATION GEOGRAPHY AND PLANNING

Week 7: Paying for Transportation Infrastructure

Gwilliam, K. (2002). *Cities on the Move: A World Bank Urban Transport Strategy Review*. Washington: World Bank. Chapter 10.

Siemiatycki, M. (2006). Implications of Private-Public Partnerships on the Development of Urban Public Transit Infrastructure: The Case of Vancouver. *Journal of Planning Education and Research*, 24(4), 379-393.

Week 8: Congestion: causes and cures

Taylor, B.D. (2002). Rethinking Traffic Congestion. *Access*. 21(Fall). Pp. 8-16.

Stopher, P.R. (2004). Reducing road congestion: a reality check. *Transport Policy*, 11 (2), pp. 117-131.

Week 9: Transit and non-motorized transportation

Service integration; governance, mass transport in the global south

Cervero, R, and Golubb, A. (2007). Informal transport: A global perspective. *Transport Policy*, 14, 445–457

Pucher, J. and Buehler, R. (2006) Why Canadians cycle more than Americans: A comparative analysis of bicycling trends and policies. *Transport Policy*. 12, pp. 265-279.

Week 10: End of suburbia?

Office parks; suburbanization, auto dependence, transit oriented development

In Class Film: End of Suburbia

Filion, P. and McSpurren, K. (2007). Smart Growth and Development Reality: The Difficult Coordination of Land Use and Transport Objectives. *Urban Studies*, 44(3), pp. 501-523.

Week 11: Transportation Demand Management

Meyer, M.D. (1999). Demand management as an element of transportation policy: using carrots and sticks to influence travel behavior. *Transportation Research A*. 33, pp. 575-599.

Week 12: Freight Transportation

Chatterjee, A. (2004). Freight Transportation Planning for Urban Areas. *Institute of Transportation Engineers Journal*. 74(12), pp. 20-25.