

University of Toronto  
Geography & Planning  
**GGR 424: Transportation Geography and Planning**  
Winter 2017  
Tuesdays, 11 am - 1 pm, SSH 5017A

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**Instructor:**

Professor Anna Kramer  
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Office hours: Mondays 2-4pm and Tuesdays 3-4 pm

**Course Description:**

This course is divided into two parts. In the first half, we will explore the geographies of transportation, including the histories of transportation technologies and transformations, global urban transportation case studies, the relationship between urban form and transportation, modes, networks and infrastructures. Economic, social and environmental aspects of transportation are studied. In the second half we delve into the complexities of transportation planning, from politics to public participation, methods and evidence-based planning tools, financing and fees, paradoxes of congestion, and future trends. Assignments will challenge you to put this knowledge into practice.

**Parameters:**

Assignments should be submitted via blackboard. Late penalty is 5% per day to a maximum of one week, after which assignments will not be accepted. Email can be used for questions requiring simple, short answers. Office hours are better for anything more in-depth. Plagiarism or cheating will be handled in accordance with the University of Toronto's policies (see the Code of Behaviour on Academic Matters).

Required readings can be found on Blackboard or through the University of Toronto library website. Detailed assignment descriptions, resources and marking schemes will be posted on Blackboard.

**Assignments**

Assignment	Due	Marks
Quizzes	3, periodically in class	15
Travel fieldnotes	January 27	20
Neighbourhood travel patterns memo	February 17	25
Transit network plan proposal (group)	March 10	10
Transit network plan (group & individual)	March 31	30

**References**

The geography of urban transportation, Third Edition. (2004) Edited by Susan Hanson & Genevieve Giuliano. New York: The Guilford Press

## Schedule

Date	Class subject	Key concepts
<b>PART I: GEOGRAPHIES OF TRANSPORTATION</b>		
Jan 10	What is transportation?	Mobility & accessibility
Jan 17	Transportation technologies and transformations	Path dependency; Automobility; North American history
	Newman (1996) Reducing automobile dependence. <i>Environment &amp; Urbanization</i> 8(1), pp 67-92.	
Jan 24	Global urban transportation case studies by city	Private public transit; bus rapid transit; social urbanism; land value capture; cycling cities; tiered transit; transit exclusion; transit-induced gentrification
	Pucher et al. (2007) Urban transport trends and policies in China and India: Impacts of rapid economic growth. <i>Transport Reviews</i> 27(4), pp 379-410.	
Jan 31	Urban form and transportation	Smart growth; TOD; nodes and corridors; air quality; energy & emissions; agglomeration
	Translink (2010) Transit-oriented communities literature review. <a href="http://www.translink.ca/-/media/Documents/plans_and_projects/transit_oriented_communities/Transit_Oriented_Communities_Literature_Review.pdf">http://www.translink.ca/-/media/Documents/plans_and_projects/transit_oriented_communities/Transit Oriented Communities Literature Review.pdf</a>	
Feb 7	Networks: Modes and infrastructures	Complete streets; engineering standards; safety; coverage & capacity; goods movement
	Pucher & Buehler (2016). Safer cycling through improved infrastructure. <i>AJPH</i> 106(12), pp 2089-2091.	
Feb 14	Right to the city? Inequity and access	Spatial socioeconomics; social exclusion & marginalization, social equity; income and accessibility; limitations on mobility
	Kramer & Goldstein. (2015) Meeting the public's need for transit options: Characteristics of socially equitable transit networks. <i>Institute of Transportation Engineers (ITE) Journal</i> , 85(9), pp 23-30.	
Feb 21	No class: Reading week	

<b>PART II: TRANSPORTATION PLANNING</b>		
Feb 28	Setting priorities: politics and participation	Strategies for communicating transportation choices; methods of public participation; engaging politics
	Readings TBD	
Mar 7	Transportation planning: tools and methods	Forecasting; demand models; land use scenarios; evidence-based decision tools
	Readings TBD	
Mar 14	Planning for congestion: paradoxes and choices	Demand management; cultures of transportation
	Readings TBD	
Mar 21	Paying for transportation: Public goods and finance	Operating and capital budgets; fares, taxes and revenue tools; cost of infrastructures
	Readings TBD	
Mar 28	Future of transportation	Autonomous vehicles; 'sharing' economy
	Readings TBD	
April 4	Group transit plan presentations	