

**SCHOOL OF ARCHITECTURE AND URBAN PLANNING
UNIVERSITY OF WISCONSIN - MILWAUKEE**

**URBPLAN-841 Urban Transportation and Land Use Planning
Monday, 1:30-4:10PM PM, AUP 183**

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Office Hours: Wednesday 4:00-5:30 PM and by appointment

Course Objectives:

This course focuses on the interrelationship between transportation and land use, and related economic, social, and environmental issues. The improvements in transportation system change accessibility of place and people, which in turn affect the location of different activities, thus land use pattern. For example, the interstate highways enhance mobility, and therefore accessibility to jobs and different facilities also increase. People have the ability to move further away from their jobs without much additional transportation cost. Interstate highway programs turn out to be the major cause of urban sprawl in the United States. On the other hand, changes in land use pattern impact people's activity patterns, which then affect their travel behavior. For example, downtown usually is the most accessible place thus its land value is the highest, which results in the concentration of activities. Because of the high density and concentration, transit is more efficient than private automobiles in many downtown areas. An understanding of these interrelationships is critical to the solution of our transportation and land use related problems, including congestion, sprawl, parking, fuel consumption, air quality degradation, and social inequities.

The purpose of this course is to provide a basis for understanding transportation and land use planning in a broad context in geography, economics, institutions and politics. The first-half of this course is to offer students with conceptual background of transportation and land use interrelationship, as well as various angles to observe the so called transportation or land use problems, such as urban sprawl and congestion. The second-half of this course is to discuss issues related to transportation and land use planning, such as transit-oriented development, smart growth, climate change and social justice. By the end of the semester, students are expected to gain enough knowledge of the essential concepts, influential thinkers, and important debates associated with the transportation-land use connection as a foundation for both academic and professional work in the transportation field.

Texts and Reading:

Hanson, S. and G. Giuliano, eds. (2004) *The Geography of Urban Transportation*, 3rd edition. New York: Guilford Press.

All other required readings will be available on the course website

Course requirements:

The class is organized as partly lecture and partly seminar. Students are expected to attend ALL class sessions. Students should read weekly assignments and be prepared for class. In discussions and activities, students will be asked to summarize, discuss and critique class readings, and to develop arguments for or against specific policy proposals. In addition to class participation, course requirements include assignments, midterm exam and final paper, which are all graded. Late assignments will be marked down.

Grading:

The course grade will be calculated as follows:

Assignment 1	5 %
Assignment 2	10 %
Assignment 3	10 %
Midterm exam	25%
Final paper	30%
Class participation and discussion	20%

Academic Conduct:

The University, as an instrument of learning, is predicated on the existence of an environment of integrity. Faculty have the primary responsibility for establishing and maintaining an atmosphere and attitude of academic integrity such that the enterprise may flourish in an open and honest way. Students share this responsibility for maintaining standards of academic performance and classroom behavior conducive to the learning process. Please review Chapter UWS 14 and Faculty Document No. 1686 at: http://www4.uwm.edu/acad_aff/policy/academicmisconduct.cfm for both UWM's and my expectations of appropriate student academic conduct.

For other university policies, please go to the website: <http://www.uwm.edu/Dept/SecU/SyllabusLinks.pdf>

Course Schedule

Week 1	1/26	Introduction
Readings		Hanson, 2004, chapter 1 in Hanson and Giuliano Renne and Bennett, 2014 Dittmar, 1995
Week 2	2/2	Overview of Transportation and Land use
Readings		Giuliano, 2004, Chapter 9 in Hanson and Giuliano (P237-P252) Giuliano, 1995 Cervero and Landis, 1995 Crane, 1998 Levine, 1999
		<u>Assignment 1 due</u>
		Travel Diary
Week 3	2/9	History and Sprawl
Readings		Muller, 2004, chapter 3 in Hanson and Giuliano Lang and Lefurgy, 2003 Gleason, 1998 Ewing, 1997 Gordon and Richardson, 1997
Debate		Is urban sprawl inevitable?
FYI		Measuring sprawl 2014 (Ewing, et al, 2014)
Week 4	2/16	Congestion
Readings		Downs, 2004a, Chapter 10 Downs, 2004b Taylor, 2002
Case Study		Congestion pricing (FHWA, 2006)
Week 5	2/23	Effects of Transportation Investments on Land Use
Readings		Giuliano, 2004, Chapter 9 in Hanson and Giuliano, pp. 252- 273. Cervero and Landis, 1997 Boarnet and Haughwout, 2000 Stopher, 2004 Litman, 2007
Debate		Should Wisconsin Build the High Speed Rail? (NPR report, O'Toole, 2009)

Assignment 2 due

Case study of transportation and land use connection

Week 6 3/2

Effects of Land Use on Transportation

Readings

Boarnet and Crane, 2001, Ch. 3
Ewing and Cervero, 2010
Giuliano, 1991

Case Study

Smart Growth and Comprehensive Planning Initiatives

Week 7 3/9

Public Transit

Readings

Pucher, 2004, chapter 8 in Hanson and Giuliano
Kain, 1999, chapter 11 in Gomez-Ibanez and Winston
Giuliano and Hayden, 2005

Discussion

Your experience of transit in Milwaukee

Case Study

Bus Rapid Transit in the U.S.

FYI

Bus Rapid Transit Practitioner's Guide

Week 8

Have a Nice Spring Break!

Week 9 3/23

Midterm Exam Due

(no class)

Week 10 3/30

Parking

Readings

Knack, 2005
Willson, 1995
Shoup, 1999

Case Study

SF Park (website and Pierce and Shoup, 2013)

Debate

Should NWQ parking be free for UWM students?

FYI

Litman, 2010, Parking Management

Week 11 4/6

Energy and Environment

Readings

Greene, 2004, chapter 10 in Hanson and Giuliano
Bae, 2004, chapter 13 in Hanson and Giuliano
Howitt and Altshuer, 1999

Discussion

SANDAG RTP lawsuit

Week 12	4/13	Equity and Social Justice
Readings		Deka, 2004, chapter 12 in Hanson and Giuliano O'Regan and Quigley, 1999 Shen and Sanchez, 2006
Case Study		Impact of MCTC Service Reduction (Rast, 2011)
Debate		Zoo Interchange Lawsuit: Is it Worthy?
<u>Assignment 3 due</u>		Measuring GHG emission
Week 13	4/20	Transportation Finance and Institution
Readings		Taylor, 2004, chapter 11 in Hanson and Giuliano Wachs, 2003 Wachs and Dill, 1999
Case Study		Wisconsin VMT Fee Proposal
Week 14	4/27	Course Summary: Integrated Transportation and Land Use Planning
Readings		Giuliano and Hanson, 2004, chapter 14 in Hanson and Giuliano Katz and Puentes, 2007
Week 15	5/4	Final Paper Presentation
Week 16	5/11	Final Paper Due

References

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