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:


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:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Assignment 1</td>
<td>5%</td>
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<tr>
<td>Assignment 2</td>
<td>10%</td>
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<td>Assignment 3</td>
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<tr>
<td>Midterm exam</td>
<td>25%</td>
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<tr>
<td>Final paper</td>
<td>30%</td>
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<tr>
<td>Class participation and discussion</td>
<td>20%</td>
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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](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](http://www.uwm.edu/Dept/SecU/SyllabusLinks.pdf)
## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/26</td>
<td>Introduction</td>
<td>Hanson, 2004, chapter 1 in Hanson and Giuliano</td>
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<td></td>
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<td>Renne and Bennett, 2014</td>
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<td>Dittmar, 1995</td>
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<tr>
<td>2</td>
<td>2/2</td>
<td>Overview of Transportation and Land use</td>
<td>Giuliano, 2004, Chapter 9 in Hanson and Giuliano (P237-P252)</td>
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<td></td>
<td>Giuliano, 1995</td>
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<td>Cervero and Landis, 1995</td>
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<td>Crane, 1998</td>
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<td>Levine, 1999</td>
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<td>Assignment 1 due</td>
<td>Travel Diary</td>
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<tr>
<td>3</td>
<td>2/9</td>
<td>History and Sprawl</td>
<td>Muller, 2004, chapter 3 in Hanson and Giuliano</td>
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<td>Lang and Lefurgy, 2003</td>
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<td>Gleason, 1998</td>
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<td>Ewing, 1997</td>
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<td>Gordon and Richardson, 1997</td>
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<td></td>
<td></td>
<td>Debate</td>
<td>Is urban sprawl inevitable?</td>
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<tr>
<td>4</td>
<td>2/16</td>
<td>Congestion</td>
<td>Downs, 2004a, Chapter 10</td>
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<td>Downs, 2004b</td>
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<td>Taylor, 2002</td>
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<td>Case Study</td>
<td>Congestion pricing (FHWA, 2006)</td>
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<tr>
<td>5</td>
<td>2/23</td>
<td>Effects of Transportation Investments on Land Use</td>
<td>Giuliano, 2004, Chapter 9 in Hanson and Giuliano, pp. 252-273.</td>
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<td></td>
<td>Cervero and Landis, 1997</td>
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<td>Boarnet and Haughwout, 2000</td>
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<td>Stopher, 2004</td>
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<td>Litman, 2007</td>
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<td>Debate</td>
<td>Should Wisconsin Build the High Speed Rail? (NPR report, O'Toole, 2009)</td>
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<td><strong>Assignment 2 due</strong></td>
<td>Case study of transportation and land use connection</td>
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<td><strong>Week 6 3/2</strong></td>
<td><strong>Effects of Land Use on Transportation</strong></td>
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<tr>
<td>Readings</td>
<td>Boarnet and Crane, 2001, Ch. 3</td>
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<td></td>
<td>Ewing and Cervero, 2010</td>
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<td></td>
<td>Giuliano, 1991</td>
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<tr>
<td><strong>Case Study</strong></td>
<td>Smart Growth and Comprehensive Planning Initiatives</td>
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<td><strong>Week 7 3/9</strong></td>
<td><strong>Public Transit</strong></td>
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<td>Readings</td>
<td>Pucher, 2004, chapter 8 in Hanson and Giuliano</td>
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<td>Kain, 1999, chapter 11 in Gomez-Ibanez and Winston</td>
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<td></td>
<td>Giuliano and Hayden, 2005</td>
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<tr>
<td><strong>Discussion</strong></td>
<td>Your experience of transit in Milwaukee</td>
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<tr>
<td><strong>Case Study</strong></td>
<td>Bus Rapid Transit in the U.S.</td>
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<tr>
<td><strong>FYI</strong></td>
<td>Bus Rapid Transit Practitioner’s Guide</td>
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<td><strong>Week 8</strong></td>
<td><strong>Have a Nice Spring Break!</strong></td>
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<td><strong>Week 9 3/23</strong></td>
<td><strong>Midterm Exam Due</strong></td>
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<td><strong>Week 10 3/30</strong></td>
<td><strong>Parking</strong></td>
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<td>Readings</td>
<td>Knack, 2005</td>
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<td>Willson, 1995</td>
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<td>Shoup, 1999</td>
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<td><strong>Case Study</strong></td>
<td>SF Park (website and Pierce and Shoup, 2013)</td>
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<td><strong>Debate</strong></td>
<td>Should NWQ parking be free for UWM students?</td>
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<td><strong>FYI</strong></td>
<td>Litman, 2010, Parking Management</td>
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<td><strong>Week 11 4/6</strong></td>
<td><strong>Energy and Environment</strong></td>
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<td>Readings</td>
<td>Greene, 2004, chapter 10 in Hanson and Giuliano</td>
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<td>Bae, 2004, chapter 13 in Hanson and Giuliano</td>
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<td>Howitt and Altshuer, 1999</td>
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<td><strong>Discussion</strong></td>
<td>SANDAG RTP lawsuit</td>
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</table>
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?

Assignment 3 due
- 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**


Federal Highway Administration (FHWA), 2006, Congestion Pricing: A Primer, Publication Number: FHWA-HOP-07-074


