Congestion in auto-oriented US cities has been worsening for decades. However, the government’s ability to finance new transportation infrastructure has become increasingly constrained. Further, the climate change and energy crisis make any policy and public investment entailing more automobile uses unpopular. Instead, planners are increasingly turning to alternative policies that involve changing development patterns and land use to solve transportation problems. There is ample evidence that downtown workers and residents drive less and use more sustainable modes than suburban residents. If we design and develop suburban neighborhoods like downtown neighborhoods – with higher density, mixed land uses, and transit and pedestrian friendly street layouts, – would people drive less?

This course is designed to teach integrated perspectives and analytical frameworks for sustainable urban transportation and land use policies. It emphasizes the need to understand how the built environment and transportation interact. How new investments on transportation infrastructure – highway or transit – influence subsequent development patterns? How different forms of land uses and the built environment influence travel patterns? To address these questions, students will learn land use/transportation theories and models, review empirical studies, and compare different transportation/land use policies and planning techniques.

Topics to be covered in the course include:
1. Contemporary urban transportation and land use policy debates and issues
2. Theories of travel demand and behavior
3. Influences of urban form (land use) on travel patterns
4. Impacts of transportation on land use and urban form
5. Integrated transportation and land use planning and smart growth
6. Characteristics of alternative transportation modes: transit, bicycling, and walking
7. Transit oriented development (TOD)

This course will focus on the interaction between transportation and land use. Students who seek to learn more traditional theories and planning skills in the two fields are advised to take UP 430 Urban Transportation Planning, UP 447 Land Use Planning Workshop, and UP 546 Land Use Policy and Planning.

This course is research oriented, focusing on learning theories, analytical tools, and state of art practices from the most recent literature. UP 494 Active Transportation Workshop is more application oriented and will be a great complement to this course.

**TEXTBOOK**


* Additional readings or the links to them will be posted on the Illinois Compass website.
** In most sessions, a lecture will be accompanied by discussion based on reading assignments. Students should read ALL reading assignments before coming to the class
EVALUATION

<table>
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<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Class Participation/Attendance</td>
<td>20 %</td>
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<tr>
<td>Assignments</td>
<td>40 %</td>
</tr>
<tr>
<td>Final presentation (10%) and term paper (30%)</td>
<td>40 %</td>
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Random attendance checks will be taken. Poor attendance will not result in automatic failure, but 20% participation grade will be significant in your final grade. Class participation grade will also be affected by class distracting behaviors such as tardiness and texting. Laptops should be used only for note taking. **No web surfing! No texting!**

ASSIGNMENTS and TERM PAPER

Various assignments will be given throughout the semester in forms of short essays, case studies, and take home exercises. Late submission of homework assignments will be penalized by 20% per day.

Students are required to present and submit a term paper. The term paper must address a topic on sustainable transportation and land use policies. Students can do a case study, an empirical study, policy evaluation, or any other type of research or analysis on the topics covered in class. Detailed instructions about the term paper will follow. Besides the deadlines, students are encouraged to discuss with the instructor as often as needed about the research topic, methods, data sources, etc.

Schedule for term paper deadlines:
- [Oct 6] One-page abstract including research questions and study plan and a list of at least five references.
- [Nov 3] Three-page progress report documenting what has been and to be done, expected findings, and expected content in the final paper.
- [Dec 1, 3 & 8] Research presentation. PPT file is due by 9am on your presentation day.
- [Dec 14] Term paper due by Noon.

POLICIES

SPECIAL ACCOMMODATIONS
This course will accommodate students with documented disabilities. Please refer to [http://disability.illinois.edu/disability-resource-guide](http://disability.illinois.edu/disability-resource-guide) for more information and provide the appropriate documentation at the beginning of the semester.

ACADEMIC INTEGRITY
This course follows the guidelines set forth by the University student code. See [http://studentcode.illinois.edu/article1_part4_1-401.html](http://studentcode.illinois.edu/article1_part4_1-401.html) for specific guidelines, examples, and punishment associated with academic dishonesty.

CLASS CLIMATE
The Department of Urban and Regional Planning (DURP) is committed to creating an environment of inclusion and opportunity that is rooted in the very goals and responsibilities of practicing planners. Conduct that interferes with the rights of another or creates an atmosphere of intimidation or disrespect is inconsistent with the environment of learning and cooperation that the program requires. By enrolling a course in the Department of Urban and Regional Planning, students agree to be responsible for maintaining a respectful environment in all DURP activities, including lectures, discussions, labs, projects, and extracurricular programs. We will be governed by the University

**EMERGENCY RESPONSE RECOMMENDATIONS**

The Department of Homeland Security and the University of Illinois at Urbana-Champaign Office of Campus Emergency Planning recommend the following three responses to any emergency on campus: **RUN > HIDE > FIGHT**

For more information, [http://police.illinois.edu/emergencyplanning/general/](http://police.illinois.edu/emergencyplanning/general/)

More detailed recommendations for emergency response and TBH floor plans are posted on the Compass website of the course.

**COURSE SCHEDULE**

* indicates optional readings.

<table>
<thead>
<tr>
<th>WEEK 1</th>
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<tr>
<td><strong>Aug 25</strong></td>
<td><em>Introduction and Course Overview</em></td>
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| **Aug 27** | *Contemporary Issues and Debates – land use and travel connection* (discussion session)  

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<th>WEEK 2</th>
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| **Sep 1** | *The context of urban travel and travel demand (2 sessions)*  

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<th>WEEK 3</th>
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| **Sep 8** | *Transportation, Energy, and the Environment*  
Influences of Land Use (Urban Form) on Travel (3 sessions)


WEEK 4
Sep 15

Sep 17

TRANSPORTATION INVESTMENT AND URBAN DEVELOPMENT PATTERNS

WEEK 5
Sep 22
Impacts of Transportation Investments on Land Use (2 sessions)
Muller, Peter O. 2004. Ch.3 Transportation and urban form: Stages in the spatial evolution. In Hanson and Giuliano (2004).

Sep 24

SUSTAINABLE TRANSPORTATION AND LAND USE POLICIES

WEEK 6
Sep 29
Traditional Transportation Planning Process

Oct 1
Transportation Finance and Road Pricing (3 sessions)

WEEK 7
Oct 6
transportation: how it works.


Oct 8


**WEEK 8**

**Oct 13**

**Public Transportation (2 sessions)**


Oct 15


**WEEK 9**

**Oct 20**

**Bike Planning (3 sessions)**


Oct 22

No class due to ACSP Conference

**WEEK 10**

**Oct 27**

[Assignment #4 due]


**Oct 29**

[Assignment #5 due]

**WEEK 11**

**Nov 3**

[Progress report due]


**Nov 5**

[Assignment #5 due]

**Guest lecture on “Walk Champaign: Champaign’s Pedestrian Plan”**

Ben Leroy, Planner II, Planning & Development Department, City of Champaign

**WEEK 12**

**Nov 10**

**Parking (2 sessions)**


Shoup. 1999. The trouble with minimum parking requirements. Transportation Research
Part A 33: 549-574.

Nov 12

**WEEK 13**

**Nov 17**
*

**WEEK 14**

**Nov 24, Nov 26**

**WEEK 15**

Dec 1
RESEARCH PRESENTATION 1
*PPT file is due by 9AM on your presentation day.*

Dec 3
RESEARCH PRESENTATION 2

**WEEK 16**

Dec 8
RESEARCH PRESENTATION 3

*FINAL PAPER due on Dec 14 by NOON.*