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. Performance measures of urban transportation system
6. Characteristics of different transportation modes: transit, bicycling, and walking
7. Transit oriented development (TOD)
8. Integrated transportation and land use planning and smart growth

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 of urban land use and transportation planning are advised to take UP 430 Urban Transportation Planning, UP 447 Land Use Planning Workshop, and UP 546 Land Use Policy and Planning.

In most sessions, a lecture will be accompanied by discussion on readings. Students should read ALL reading assignments before coming to the class and active participation in discussions will be credited in the final grade.


*Additional readings or the links to them will be posted on the Illinois Compass website.
Evaluation

<table>
<thead>
<tr>
<th>Class Participation/Attendance</th>
<th>10 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>50 %</td>
</tr>
<tr>
<td>Final presentation (10%) and term paper (30%)</td>
<td>40 %</td>
</tr>
</tbody>
</table>

Random attendance checks will be taken. Poor attendance will not result in automatic failure, but 10% 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.

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 urban 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:
- [Feb 26] One-page abstract including research questions and study plan and a list of at least five references.
- [Mar 26] Three-page progress report documenting what has been and to be done, expected findings, and expected content in the final paper.
- [Apr 18, Optional] You can submit an early draft if you want to get some feedbacks on your work before wrapping it up. This is not required.
- [Apr 23, 25, & 30] Research presentation. PPT file is due by 9am on your presentation day.

Policies

Special Accommodations

This course will accommodate students with documented disabilities. Please refer to [http://www.disability.uiuc.edu/resourceguide](http://www.disability.uiuc.edu/resourceguide) 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://www.admin.uiuc.edu/policy/code/article_1/a1_1-401.html](http://www.admin.uiuc.edu/policy/code/article_1/a1_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 Student Code. See Student Code Article 1—Student Rights and Responsibilities, Part 1. Student Rights: §1-102 In the Classroom.
COURSE SCHEDULE

INTRODUCTION

WEEK 1
Jan 15

Introduction and Course Overview

Jan 17

Contemporary Issues and Debates – land use and travel connection
[discussion session]


INFLUENCES OF LAND USE (URBAN FORM) ON TRAVEL BEHAVIOR

WEEK 2
Jan 22

The context of urban travel


Jan 24

Travel behavior (demand)


WEEK 3
Jan 29

Influences of Land Use (Urban Form) on Travel


Jan 31

[Assignment #2 due]

TRANSPORTATION INVESTMENT AND URBAN DEVELOPMENT PATTERNS

**WEEK 4**

Feb 5  
*Household location choice*

Feb 7  
*Firm location choice*

**WEEK 5**

Feb 12  
*Impacts of Transportation Investments on Land Use*

Feb 14  
[Assignment #3 due]

**TRANSPORTATION AND LAND USE POLICIES**

**WEEK 6**

Feb 19  
*Transportation Planning Process*

Feb 21  
*Urban Transportation Systems and Performance*

**WEEK 7**

Feb 26  
*Road Pricing*

**WEEK 8**

Mar 5

*Public Transportation*


Mar 7


**WEEK 9**

Mar 12

*Bike Facility Planning*


Mar 14

[Assignment #4 due]


**WEEK 10**

Mar 19, Mar 21

*Spring Break*

**WEEK 11**

Mar 26

[Progress report due]

[Assignment #5 due]

Mar 28

*Walkable Streets*


**WEEK 12**

Apr 2

*Parking*


Apr 4


**WEEK 13**

Apr 9

*Integrated Regional Planning and Smart Growth Audit*


**Apr 11**  

**WEEK 14**

**Apr 16**  
*Transit Oriented Development (TOD)*  

**Apr 18**  
[Assignment #6 due]  
[Optional early draft]


---

**RESEARCH PRESENTATION**

**WEEK 15**

**Apr 23**  
**RESEARCH PRESENTATION 1**  
*PPT file is due by 9AM on your presentation day.*

**Apr 25**  
**RESEARCH PRESENTATION 2**

**WEEK 16**

**Apr 30**  
**RESEARCH PRESENTATION 3**

*FINAL PAPER due on May 6 by NOON.*