

## **PADM 3220: Land Use and Transportation Planning**

### **Instructor:**

Annie Lee, Ph.D.  
Assistant Professor  
Department of Public Administration  
[Annie.Lee@unt.edu](mailto:Annie.Lee@unt.edu)

### **Class Meetings:**

Tuesday and Thursday 2:00pm – 3:20pm

**Class Location:** Coliseum 047

### **Office Hours:**

Monday 12:00pm – 1:30pm  
And also by appointment  
Office Location: 204N Chilton Hall

### **Course Overview:**

This course introduces key concepts and issues in land use and transportation planning. Throughout the course, you will explore foundational theories and policies, including the interrelationship between urban form and transportation behaviors, the history of transportation systems, and transportation policies and regulations, as well as their impact on urban development. The course will also address ongoing debates in transportation, such as equitable access to transportation and the impact of emerging technologies like autonomous vehicles. The objective is to provide students with a strong theoretical foundation while fostering critical thinking about current issues in transportation and land use planning.

### **Learning Goals:**

- Learn key concepts in transportation planning and land use.
- Understand the interrelationships between land use and transportation.
- Understand planning processes and the management of transportation systems.
- Evaluate the impacts of transportation policies on urban development.

### **Required Technology:**

- Microsoft Office Suite (Word, Excel, PowerPoint) or equivalent
- Access to a Computer

### **Required Activity:**

- There will be two field trips during this course: one focused on a parking demand study and the other on a bus headway study. Detailed guidelines will be provided in class.

## Course Requirements:

### **1. Class Participation 20%**

Active participation is essential in this course. Participation comprises two components: **attendance (10%)** and participation in **in-class activities (10%)**.

Each absence will result in a **deduction from the total grade**. In emergency situations, you must inform the instructor before the class and obtain the instructor's confirmation.

Several classes will include **in-class activities** that require students to submit their work before leaving the class. When in-class activity outputs are required to be submitted via Canvas, they must be uploaded on Canvas before **11:59 PM** the day after the class (**Wednesday at 11:59 PM for a Tuesday class, and Friday at 11:59 PM for a Thursday class**). **Late submissions will incur a penalty, and submissions that are more than one week late will NOT be accepted.**

### **2. Mid-term Exam 25%**

There will be an online exam. The exam questions will be based on materials covered from week 1 up to the last class before the exam. It will be an open-book exam. You are **not allowed** to discuss or collaborate with other students during the exam.

### **3. Redesign Street Assignment 25%**

You will choose a 1-mile portion of a street in the Dallas-Fort Worth region that you are most familiar with. You will then examine the status of the street by analyzing the adjacent land use, socio-demographic patterns of the proximate neighborhood, major traffic patterns, and regulations applied to the street. After the examination, you will set planning goals (e.g., improving pedestrian safety, enhancing commuters' mobility) and provide a redesign plan of the street that achieves these goals.

The street assignment output will be in poster format. You will present it in class and submit the final version of the poster via Canvas by the specified deadline. **Late submissions will incur a penalty, and submissions that are more than one week late will NOT be accepted.**

### **4. Final Group Project 30%**

Each group will conduct research on an infrastructure megaproject (e.g., high-speed rail). The research will include the background of the megaproject, its costs and benefits, short-term and long-term impacts on land use and mobility, and implementation challenges. Your group will present the findings during class and receive feedback from the instructor and your peers. Detailed guidelines will be provided during class.

After the presentation, all group members will submit the final version of the presentation slides, along with its description document via Canvas by the specified deadline. **Late**

**submissions will incur a penalty, and submissions that are more than three days late will NOT be accepted.**

**Grading Policies:**

Grades will be determined by:

<b>Class Participation</b>	
Attendance	10%
In-class Activities	10%
<b>Mid-term Exam</b>	25%
<b>Redesign Street Assignment</b>	25%
<b>Final Group Project</b>	30%
<b>Total</b>	100%

**Recommended Textbook:**

- Rodrigue, J.-P. (2020). The Geography of Transport Systems: The spatial organization of transportation and mobility (5<sup>th</sup> ed.). Routledge. <https://transportgeography.org/>
- Giuliano, G. and Hanson, S. (2017). The Geography of Urban Transportation. (4<sup>th</sup> ed.). Guilford.

**Communication Policy:**

If you have any questions about the course, send an email to [Annie.Lee@unt.edu](mailto:Annie.Lee@unt.edu). The subject line of emails should state “Land Use and Transportation Planning.” Instructor will usually respond within 72 hours (not including the weekend), and often much quicker. To ensure a response, always plan to e-mail at least 72 hours before a deadline.

**Assignment Policy:**

Assignment (redesign street assignment, final group project and in-class activities) due dates will be posted on Canvas. All assignments (except for certain in-class activities that must be submitted during class) should be submitted **via Canvas**.

**Syllabus Change Policy:**

We reserve the right to modify the syllabus, including adding readings and activities. Any changes will be posted on Canvas at least one week in advance.

**Academic Integrity:**

The University of North Texas values the integrity of learning and embraces the core values of trust and honesty. All students must understand their responsibilities and the academic penalties associated with academic misconduct, such as cheating and plagiarism, under UNT policy “06.003 Student Academic Integrity” (see <https://vpaa.unt.edu/ss/integrity>).

## Course Outline:

<b>Week 1</b>	
1/13	Course Overview and Introduction
1/15	Concepts of Urban Transportation
<b>Week 2</b>	
1/20	Transportation and Urban Form
1/22	Transportation Planning and Policy
<b>Week 3.</b>	
1/27	Guest Lecturer ( <i>UNT Career Coach</i> ) ( <i>TBD</i> )
1/29	Transportation and Land Regulation
<b>Week 4</b>	
2/3	<i>Field trip 1: Parking Demand Study</i>
2/5	No class
<b>Week 5</b>	
2/10	Transport Justice Part 1
2/12	Transport Justice Part 2
<b>Week 6</b>	
2/17	Who (and what) are streets for? Part 1
2/19	Who (and what) are streets for? Part 2
<b>Week 7</b>	
2/24	How do we decide
2/26	How do Transportation + Urban Development Interact?
<b>Week 8</b>	
3/3	Mid-term exam
3/5	Re-design street assignment work session
<b>Week 9</b>	
3/10	<b><i>Spring Break (No Class)</i></b>
3/12	<b><i>Spring Break (No Class)</i></b>
<b>Week 10</b>	
3/17	Redesign street assignment presentation 1
3/19	Redesign street assignment presentation 2
<b>Week 11</b>	
3/24	Redesign street assignment presentation 3
3/26	Redesign street assignment presentation 4
<b>Week 12</b>	
3/31	Parking Spaces & Tactical Urbanism
4/2	Field Trip & Final Group Project Plans
<b>Week 13</b>	
4/7	<i>Field Trip 2: Bus Headway Activity</i>
4/9	No class
<b>Week 14</b>	
4/14	How do we pay for transportation infrastructure?

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Transportation and Equity

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4/16 Autonomous + Electric Vehicles

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**Week 15**

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4/21 Group Project Work Session

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4/23 Group Project Presentation 1

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**Week 16**

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4/28 Group Project Presentation 2

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4/30 Final Review Session (*Online*)

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