PADM 3220: Land Use and Transportation Planning

Instructor:
Annie Lee, Ph.D.
Assistant Professor
Department of Public Administration
Annie.Lee@unt.edu

Class Meetings:
Monday 11:00am – 12:20pm
Wednesday 11:00am - 12:20pm
Class Location: Chilton Hall 255

Office Hours:
Monday and Wednesday 9:30am – 10:30 am
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:
- Field trip: Detailed guidelines will be provided in class (TBD)

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. More than **two** emergency absences will result in a deduction, regardless of the reason.

Several classes will include **in-class activities** that require students to submit their work before leaving the class. Any submissions made after that **will not be accepted**. 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 (**Tuesday at 11:59 PM for a Monday class, and Thursday at 11:59 PM for a Wednesday class**). Any submissions made after that **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, along with its description document, via Canvas by the specified deadline. Late submissions will incur a penalty of **10 points per day**. Submissions **more than two days 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 of **10 points per day**, and submissions **more than two days late will not be accepted**.

Grading Policies:

Grades will be determined by:

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

Additional Credits:

- Active participation during the guest lecture sessions.
- Active participation (e.g., asking questions and providing feedback) in your peers' presentations.

Recommended Textbook:

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

Communication Policy:

If you have any questions about the course, send an email to Annie.Lee@unt.edu. The subject line of emails should state "Land Use and Transportation Planning." Instructor will usually respond within 48 hours (not including the weekend), and often much quicker. To ensure a response, always plan to e-mail at least 48 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:

Week 1	
1/13	Course Overview and Introduction
1/15	Concepts of Urban Transportation
Week2	
1/20	***Martin Luther King Jr. Holiday (No Class)***
1/22	Transportation and Urban Form
Week 3.	
1/27	Transportation Planning and Policy
1/29	Guest Lecturer *(UNT Career Coach)*
Week 4	
2/3	Transportation and Land Regulation
2/5	Transport Justice Part 1
Week 5	
2/10	Transport Justice Part 2
2/12	Who (and what) are streets for? Part 1
Week 6	
2/17	Who (and what) are streets for? Part 2
2/19	Guest Lecturer *(Angie Manglaris, City of Denton)*
Week 7	
2/24	How do Transportation + Urban Development Interact?
2/26	How do we decide
Week 8	
3/3	Mid-term exam
3/5	TBD
Week 9	
3/10	***Spring Break (No Class)***
3/12	***Spring Break (No Class)***
Week 10	
3/17	Redesign street assignment presentation 1
3/19	Redesign street assignment presentation 2
Week 11	
3/24	Redesign street assignment presentation 3
3/26	Redesign street assignment presentation 4
Week 12	
3/31	How do we pay for transportation? Part 1

4/2	How do we pay for transportation? Part 2
Week 13	
4/7	Field Trip
4/9	No class
Week 14	
4/14	Transportation and Equity
4/16	Autonomous + Electric Vehicles
Week 15	
4/21	Group Project Workday
4/23	Group Project Workday
Week 16	
4/28	Group Presentation
4/30	Final Review Session