

College of Arts and Sciences
Department of Geography

GEOG 5300: Geography of Transportation

Course schedule: TTh 12:45 – 2:05 PM

Instructor: Huyen Le, Ph.D. (le.253@osu.edu)

Credit hours: 3.0

TA: Megan Lindstrom (lindstrom.42@osu.edu)

Class location: Scott Lab E004

Office hours:

Tue 2:15 – 3:45 pm or by appointment (TA, 1070 Derby Hall)

Thu 2:15 – 3:30 pm or by appointment (Instructor, 1110 Derby Hall)

COURSE DESCRIPTION

This course examines the spatial aspects of transportation. It covers multiple topics within three modules:

Module 1 – Spatial organization: Concepts of spatial organization, economic development of transportation networks and cities, and spatial interaction.

Module 2 – Network analysis and allocation methods: basic network analysis with descriptive measures, optimizing the flow of freights in transportation networks.

Module 3 – Urban transportation: introduction to selected urban transportation problems, including urban travel demand modeling, public transit, non-motorized transportation, and shared mobility.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

1. distinguish between various concepts and theories used in spatial organization and transportation economics at the introductory level;
2. demonstrate a moderate degree of competent in understanding the major issues and research methods in transportation geography, such as network analysis, allocation model, spatial interaction, and urban travel demand models;
3. successfully apply these theories and methods to address a real-life transportation problem of their choice.

TEXTS

Required text:

E.J. Taaffe, H.L Gauthier, and M.E. O’Kelly, *Geography of Transportation*, 2nd Edition.

Google Books electronic edition is freely available online. Link on Google Books:

https://play.google.com/store/books/details/Edward_James_Taaffe_Geography_of_Transportation?id=N60qf7WynaEC

Recommended text:

J.P. Rodrigue, C. Comtois, B. Slack, *The Geography of Transport Systems*, 3rd Edition.

PDF available at https://transportgeography.org/wp-content/uploads/GTS_Third_Edition.pdf

Other and more recent readings will be made available electronically through Carmen Canvas or are accessible via the internet/library website.

GRADING

The grading will be based on your attendance, homework, and exams. A final grade for the class will be awarded for each student and will be comprised of the following:

Type	Percentage of final grade	Date
Attendance/Participation	7%	-
Homework 1	15%	9/17
Homework 2	15%	10/24
Homework 3	15%	12/3
Midterm exam 1	10%	9/19
Midterm exam 2	10%	10/29
Final exam	28%	12/10

Homework

Homework is submitted by 5:00 PM on the due date on Canvas. Email submissions of homework will not be accepted. Late submissions are subject to penalties of 20% per day (i.e., homework submitted between 5:05 PM on the due date to 5:00 PM of the next day will receive 80% of its points).

Exams

All exams are closed book and take place in the same classroom. The two midterm exams are not comprehensive. The final exam is comprehensive.

Attendance

Class attendance is required and accounts for 7% of the total grade. Students are expected to read the assigned reading before class.

Absence from class is only accepted in special cases (e.g., health issues, university obligations, family emergencies, etc.); students are expected to email the instructor to notify his/her absence at least 24 hours before the class session. Attendance points (max: 7%) will be taken off for each unexcused absence.

Extra credits

Students will be able to get extra credits from occasional quizzes during class.

Final grades

A	A-	B+	B	B-	C+	C	C-	D+	D	E
≥93%	90-92%	87-89%	83-86%	80-82%	77-79%	73-76%	70-72%	67-69%	60-66%	<60%

COURSE TECHNOLOGY

For help with your password, university email, Carmen Canvas, Top Hat, or any other technology issues, questions, or requests, contact the OSU IT Service Desk. Standard support hours are available at <https://ocio.osu.edu/help/hours>, and support for urgent issues is available 24/7.

- **Self-Service and Chat support:** <http://ocio.osu.edu/selfservice>
- **Phone:** 614-688-HELP (4357)
- **Email:** 8help@osu.edu
- **TDD:** 614-688-8743

You may need a calculator for basic algebraic operations.

CLASS ETIQUETTE

Students may use their laptops and/or other electronic devices for notetaking and quizzes (through Top Hat). Other uses of laptops and electronic devices during class are *strongly discouraged* to avoid distractions to other students.

ACADEMIC INTEGRITY

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understood the University's [Code of Student Conduct](#), and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's *Code of Student Conduct* and this syllabus may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's *Code of Student Conduct* is never considered an excuse for academic misconduct, so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- The Committee on Academic Misconduct web pages ([COAM Home](#))
- *Ten Suggestions for Preserving Academic Integrity* ([Ten Suggestions](#))
- *Eight Cardinal Rules of Academic Integrity* (www.northwestern.edu/uacc/8cards.htm)

SPECIAL ACCOMMODATIONS

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 098 Baker Hall, 113 W. 12th Ave.; telephone 292-3307, TDD 292-0901; <https://slds.osu.edu/>

ACKNOWLEDGEMENTS

This class reuses selected materials provided by Professor Morton O'Kelly.

CLASS SCHEDULE

Week	Session	Date	Day	Topic	Class reading	Due
1	1	20-Aug	Tue	Intro: Transport geography	Chapter 1	
	2	22-Aug	Thu	Spatial organization 1		
2	3	27-Aug	Tue	Spatial organization 2		
	4	29-Aug	Thu	Economic foundation	Chapter 2	
3	5	3-Sep	Tue	Transportation costs		
	6	5-Sep	Thu	Spatial interaction 1	Chapter 7	
4	7	10-Sep	Tue	Spatial interaction 2		
	8	12-Sep	Thu	Spatial interaction 3		
5	9	17-Sep	Tue	Spatial interaction 4	Chapter 11 (pp.319-330)	HW1
	10	19-Sep	Thu	Midterm exam 1		
6	11	24-Sep	Tue	Transport and location	Check Canvas	
	12	26-Sep	Thu	Ideal location		
7	13	1-Oct	Tue	Network analysis 1	Chapter 9	
	14	3-Oct	Thu	Network analysis 2		
8	15	8-Oct	Tue	Network analysis 3		
	16	10-Oct	Thu	Break -- NO CLASS		
9	17	15-Oct	Tue	Allocation 1	Chapter 10	
	18	17-Oct	Thu	Allocation 2		
10	19	22-Oct	Tue	Allocation 3		
	20	24-Oct	Thu	Exam review		HW2
11	21	29-Oct	Tue	Midterm exam 2		
	22	31-Oct	Thu	History and development	Check Canvas	
12	23	5-Nov	Tue	Urban transportation 1	Chapter 6	
	24	7-Nov	Thu	Urban transportation 2	Chapter 8	
13	25	12-Nov	Tue	Urban transportation 3	Chapter 12	
	26	14-Nov	Thu	Public transportation	Check Canvas	
14	27	19-Nov	Tue	Public transportation	Check Canvas	
	28	21-Nov	Thu	Bicycling and walking	Check Canvas	
15	29	26-Nov	Tue	Shared mobility	Check Canvas	
	30	28-Nov	Thu	Thanksgiving -- NO CLASS		
16		3-Dec	Tue	Wrap-up, exam review		HW3
		10-Dec	Tue	Final exam (2:00pm-3:45pm)		

This schedule is subject to change.

Last updated: 8/19/2019.