

## **Geography 5300 Transportation Geography Fall Semester 2014**

<i>Instructor:</i>	Dr. Morton O'Kelly	[okelly.1@osu.edu]
<i>Class Location:</i>	Derby 0140	
<i>Class Time:</i>	Tuesday and Thursday 12:45 - 2:05	
<i>Office:</i>	1062 Derby Hall	
<i>Office Hours:</i>	Tuesday after class: 2:30 - 3:30 and by apt.	
<i>Phone:</i>	292-8744	
<i>T.A.:</i>	Hui Kong e-mail kong.174@osu.edu	
<i>Office:</i>	Derby 1070	
<i>Office Hours:</i>	Monday 2:00-3:00pm and Wednesday 3:30-4:30pm	

The course presents a review of the geography of transportation. Four major sets of ideas are discussed:

- 1) Introduction to Spatial Organization
  - a. Spatial organization using concepts of linkage, node, hierarchy, and hinterland.
  - b. Selected economic explanations and models of trade.
  - c. Spatial interaction (gravity) models.
- 2) Network Analysis
  - a. Aggregate or descriptive measures.
  - b. Disaggregate or detailed descriptive measures.
- 3) Allocation Methods

Provides an example of optimal flow, where we aim to achieve efficient flows within a given network
- 4) Urban Transportation

Introduction to selected urban transportation problems.

The emphasis is on three different interrelated approaches to understanding the geography of transport: [a] description, [b] explanation, and [c] normative or optimal models. The first type of approach asks "where?" and "what?" kinds of questions; the second approach asks "why?" questions; and the third approach deals with "how?" could a system be improved. In addition an overall learning goal is to tackle transport problems through a synthesis of various approaches. This will be accomplished through a project throughout the semester. Specifically, the course examines different approaches to transport geography through activities and a project on accessibility.

Course Text: E.J. Taaffe, H.L Gauthier, and M.E. O'Kelly, *Geography of Transportation 2nd Edition* Google Books electronic edition. Cost is approximately \$52. Link for book on google:

[https://play.google.com/store/books/details/Edward\\_James\\_Taaffe\\_Geography\\_of\\_Transportation?id=N60qf7WynaEC](https://play.google.com/store/books/details/Edward_James_Taaffe_Geography_of_Transportation?id=N60qf7WynaEC)

Course requirements and grade distribution

Activity or Exam	Percent	Date Due **
Homework / News article analysis	6%	11-Sep
Project part 1	10%	25-Sep
Midterm 1	10%	30-Sep
Homework / News article analysis	6%	16-Oct
Project part 2	10%	30-Oct
Midterm 2	10%	4-Nov
Homework / News article analysis	6%	20-Nov
Project part 3	10%	9-Dec
Final	30%	16-Dec
Class attendance and participation	2%	
Assessed through Lecture Tools		
Total	100%	

\*\* subject to adjustment

Penalties of 20% per day will be assessed for late projects [i.e. maximum score after 1 day late is 80% of the available points]. It is the student's responsibility to ensure the instructor receives the material on time. The Final Exam is comprehensive and is scheduled for the usual classroom. We will use Carmen to maintain grade book and communicate with you.

We will use Lecture Tools to deliver interactive content during the lecture.

Please refer to the Committee on Academic Misconduct for a review of Student Code of Conduct. See their very useful web site including <http://oaa.ohio-state.edu/coam/fag.html>

Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss specific needs. Please contact the Office for Disability Services at 614-292-3307 in room 150 Pomerene Hall. That office will coordinate reasonable accommodations for students with documented disabilities.

## DETAILED COURSE CONTENT AND IMPORTANT DATES

week	LINE	LECT	date	day	SEQ	TOPIC	TEXT	Activity	Percent
0	1	1.1	28-Aug	Thursday	1	What is transport geog about?	Chapter 1		
1	2	1.2	2-Sep	Tuesday	2	Spatial Organization -- nodes and links		Hand out and prepare activities	
	3	1.3	4-Sep	Thursday	3	Spatial Organization -- hinterlands and hierarchies			
2	4	1.4	9-Sep	Tuesday	4	Economic Foundations	Chapter 2		
	5	1.5	11-Sep	Thursday	5	Transport costs		Homework / News Article Analysis DUE	6
3	6	1.6	16-Sep	Tuesday	6	Spatial Interaction I	Chapter 7		
	7	1.7	18-Sep	Thursday	7	Spatial Interaction II			
4	8	1.8	23-Sep	Tuesday	8	Spatial Interaction III			
	9	1.9	25-Sep	Thursday	9	Spatial Interaction IV	Chapter 11 (part)	Project Part 1 DUE	10
5	10		30-Sep	Tuesday		Midterm Test		Midterm	10
	11	2.1	2-Oct	Thursday	1	Transport and Location	Readings		
6	12	2.2	7-Oct	Tuesday	2	Ideal location		Hand out and prepare activities	
	13	2.3	9-Oct	Thursday	3	Network Analysis	Chapter 9		
7	14	2.4	14-Oct	Tuesday	4	Network Analysis			
	15	2.5	16-Oct	Thursday	5	Network Analysis		Homework / News Article Analysis DUE	6
8	16	2.6	21-Oct	Tuesday	6	Allocation	Chapter 10		
	17	2.7	23-Oct	Thursday	7	Allocation			
9	18	2.8	28-Oct	Tuesday	8	Allocation			
	19	2.9	30-Oct	Thursday	9	Allocation		Project Part 2 DUE	10
10	20		4-Nov	Tuesday		Midterm Test		Midterm	10
	21	3.1	6-Nov	Thursday	1	History and Development - a quick review	Chapter 3 & 4		
11	22		11-Nov	Tuesday	2	NO CLASS ... VETERANS DAY			
	23	3.2	13-Nov	Thursday	3	URBAN TRANSPORT I	Chapter 5	Hand out and prepare activities	
12	24	3.3	18-Nov	Tuesday	4	URBAN TRANSPORT II	Chapter 6		
	25	3.4	20-Nov	Thursday	5	URBAN TRANSPORT III	Chapter 8	Homework / News Article Analysis DUE	6
13	26	3.5	25-Nov	Tuesday	6	TRANSPORT SYNTHESIS I	Chapter 12		
	27		27-Nov	Thursday		NO CLASS ... THANKSGIVING			
14	28	3.7	2-Dec	Tuesday	7	TRANSPORT SYNTHESIS II	Readings		
	29	3.8	4-Dec	Thursday	8	TRANSPORT SYNTHESIS III			
15	30	3.9	9-Dec	Tuesday	9	WRAP UP		Project Part 3 DUE	10
						Participation and Attendance			2
			16-Dec	2:00 - 3:45		Final		Final	30