

Geography 430 — Geography of Transportation

Fall 2009

Class Place & Time: Lec 001 (33754) TR 2:00 pm - 3:15pm at BOL 435

Credit hours: 3

Instructor: Professor Changshan Wu

- Office: BOL 482
- Phone: 229-4860 (office)
- E-mail: cswu@uwm.edu
- Office Hours: Tuesday, Thursday 11:00 am – 12:00 pm, or by appointment

Geography Department:

- Main Office & Mail Room: BOL 410
- Phone: 229-4866

Descriptions:

This course is designed to be an introductory course to the concepts and methods of transportation geography. Conceptually, it covers topics like transportation and spatial structure (organization), transportation and economy, international and regional trade, urban transportation, logistics, and transportation planning. Methodologically, this course covers various techniques applied for transportation analysis, including network analysis spatial interaction analysis and gravity model, location and allocation modeling, and geographic information system in transportation.

Required Textbook:

Taaffe, E. J., Gauthier, H.L., and O'Kelly, M.E., 1996, *Geography of Transportation* (2nd edition), Prentice Hall.

Rodrigue, Jean-Paul, Comtois, Claude, and Slack, Brian, 2008, *The Geography of Transport Systems*, Routledge, Taylor & Francis Group.

Class website:

Class website can be accessed visa D2L.

Course Evaluation

Undergraduate

1. **Examinations (60% of class grade)** - There will be a mid-term and a final examination for this course (30% each).
2. **Exercises (30% of class grade)** – Three (3) take-home exercises will be given and collected corresponding to the topics covered in the class.
3. **Class participation (10% of class grade)** - Quizzes and other assignments may be given as a component of class participation. Attendance and participation in class discussion is expected for all students.

Graduate

1. **Examinations (50% of class grade)** - There will be a mid-term and a final examination for this course (25% each).
2. **Exercises (30% of class grade)** – Three (3) take-home exercises will be given and collected corresponding to the topics covered in the class.
3. **Literature review paper (10% of class grade)** – Review one or two journal articles related to current class topics, and write a critical review paper (minimum length: 4 double-space pages with a font size of 12)
4. **Class participation (10% of class grade)** - Quizzes and other assignments may be given as a component of class participation. Attendance and participation in class discussion is expected of all students.

Grading Scale:

- A = 90-100%, A- = 87-89.99%
- B+ = 83-86.99%, B = 80-82.99%, B- = 77-79.99%
- C+ = 73-76.99%, C = 70-72.99%, C- = 67-69.99%
- D+ = 63-66.99%, D = 60-62.99%, D- = 57-59.99%
- F = 0-56.99%

Make-up: No make-ups will be allowed without emergency reasons with written proof.

Final Exam: At the same classroom.

Notices:

- Grades, once given, are final except in cases of clerical error
- Cheating on exams, map quizzes, or lab exercises will not be tolerated. Additional information about the policies and procedures can be found at http://www.uwm.edu/Dept/Acad_Aff/policy/uniformsyllabus.html and are posted in the Geography Department main office, BOL 410.

- Attendance is not required but strongly recommended.
- Students are expected to attend each class, and are responsible for their own notes.
- If you are having trouble in class, please come and see me.

Disability Statement:

Any student who feels he or she may need an accommodation based on the impact of a disability should contact me privately to discuss his or her specific needs.

H1N1 Related Statement:

In the event of disruption of normal classroom activities due to an H1N1 swine flu outbreak, the format for this course may be modified to enable completion of the course. In that event, you will be provided an addendum to this syllabus that will supersede this version.

Geography 430 Tentative[#] Schedule Fall 2009

Week	Dates	Topic(s)	Readings
1	September 3	Introduction	No readings
2	September 8 September 10	Transportation and Geography (Graph theory and network)	Chapter 1 (Rodrigue et al.) Chapter 1 (Taaffe et al.)
3	September 15 September 17	Transportation and spatial structure (Connectivity, Accessibility, Network analysis)	Chapter 2 (Rodrigue et al.)
4	September 22 September 24	Network Analysis	Chapter 9 (Taaffe et al.) Chapter 2 (Rodrigue et al.)
5	September 29 October 1	Transportation and economy	Chapter 3 (Rodrigue et al.) Chapter 2 (Taaffe et al.)
6	October 6 October 8	International trade and freight distribution	Chapter 6 (Rodrigue et al.) <i>Due date of Ex1</i>
7	October 13 October 15	Spatial Interaction models	Chapter 7 (Taaffe et al.)
8	October 20 October 22	Spatial Interaction models Mid-term review	Chapter 7 (Taaffe et al.)
9	October 27 October 29	Mid-term examination Urban form and transportation	Chapter 7 (Rodrigue et al.)

10	November 3 November 5	Urban Transportation analysis I (transportation/land use modeling)	Chapter 7 (Rodrigue et al.) Chapter 8 (Taaffe et al.)
11	November 10 November 12	Urban Transportation analysis II (behavior models)	Chapter 12 (Taaffe et al.) <i>Due date of Ex2</i>
12	November 17 November 19	Logistics and allocation models	Chapter 10 (Taaffe et al.)
13	November 24 December 26	Allocation Models Thanksgiving holiday (no class)	Chapter 10 (Taaffe et al.)
14	December 1 December 3	Transportation planning and policy (cost benefit analysis)	Chapter 9 (Rodrigue et al.) <i>Due date of Ex3</i>
15	December 8 December 10	Current issues and problems Final exam preview	Chapter 10 (Rodrigue et al.)
	December 21	Final exam (12:30 pm – 2:30 pm)	<i>Graduate literature review paper due</i>

Class contents can be changed according to the instructor during the semester.