

GEOG 3225B – Transportation Geography & GIS

Course Outline: Section 001 Winter 2024

1. Course Information

*Details about design and delivery of the course are listed below in Section 5



Classes Start	Spring Reading Week	Classes End	Study day(s)	Exam Period
January 8	February 19-23	April 8	April 9 & 10	April 11-30

January 16, 2024: Last day to add a second-term half course

February 19, 2024: Family Day

March 7, 2024: Last day to drop a second term half course without academic penalty



Course Instructor	Contact Information	Office Hours
Professor Jinhung Lee	jinhung.lee@uwo.ca	By appointment only

Teaching Assistant(s)	Contact Information	Office Hours
Reyhane Javanmard - for LABS	rjavanma@uwo.ca	TBD
Kathy Tang - for FINAL PROJECT	ktang28@uwo.ca	10:30 - 11:30 AM Mondays

2. Calendar Description

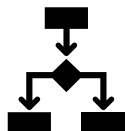
Provides a comprehensive introduction to concepts, theories, and models in the field of transportation geography. GIS and spatial analysis methods for solving transport issues and problems will be presented. Topics covered include accessibility, planning, public transit, active transport, smart mobility, impacts on land use, health, energy, environment, and social equity.

2 lecture hours, 2 lab hours, 0.5 course

Antirequisite(s): None.

Prerequisite(s): Third or fourth year-status, GEOG 2220A/B or equivalent, or permission from the instructor.

Prerequisite checking is the student's responsibility



Senate Regulations state, “unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.”

3. Textbook

A **required textbook** (it's freely available via the book website (see below)) of this course is:



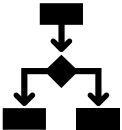
- Jean-Paul Rodrigue, *The Geography of Transport Systems (2020)*, Fifth edition, ISBN 0367364638, Routledge.
 - **Book website:** <https://transportgeography.org>

Selected readings such as news articles and journal papers related to the course topics could be posted to the OWL course website. Stay tuned!

4. Course Objectives and Format

Course objectives:

- I. Understand the fundamental concepts, theories, and models of transport geography/planning and GIS for transportation (GIS-T).
- II. Have necessary quantitative and GIS skills for analyzing transport issues and problems within cities.
- III. Solve transport problems using spatial analysis techniques and GIS software (e.g., ArcMap, ArcGIS Pro).



Mode	Dates	Time	Frequency
Lecture – in-person	Thursdays	3:30 – 4:30 PM	Weekly
Lab – in-person	Thursdays	4:45 – 7:30 PM	Weekly

All course material will be posted to OWL: <http://owl.uwo.ca>. Any changes will be indicated on the OWL site and discussed with the class.

Google Chrome or Mozilla Firefox are the preferred browsers to optimally use OWL; update your browsers frequently. Students interested in evaluating their internet speed, please click [here](#).

If students need assistance, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

5. Course Content and Schedule

General

Week	Dates (Thursday)	Topic	Lab
Part 1: Overview, contexts, and foundational concepts			
1	Jan 11	Course overview and introduction	Lab 1
2	Jan 18	What is transportation geography?	Lab 2
3	Jan 25	Accessibility – Part 1	Lab 3
4	Feb 1	Accessibility – Part 2 Term Project Introduction	Lab 3 help
5	Feb 8	Exam 1	N/A
6	Feb 15	Transport, land use, and urban structure + Problems Part 1 (Safety issues)	Lab 4
Part 2: Problems			
7	Feb 22	Reading Week (No Lecture)	N/A
8	Feb 29	Problems Part 2: environmental, social impacts	Lab 4 help
Part 3: Solutions			
9	Mar 7	Travel behaviour and Transport demand management	N/A
10	Mar 14	Sustainable transportation	Lab 5
11	Mar 21	Special topic: Transport geography in the Global South	Lab 6
12	Mar 28	Term Project, Labs 5 and 6 Help	Term Project, Labs 5 and 6 Help
13	April 4	Exam 2	N/A



Lab

	Topic	Lab session date	Due date
Lab 1	Constructing a network dataset in ArcPro	Jan 11	Varies
Lab 2	Delineating accessible areas	Jan 18	
Lab 3	Accessibility analysis – Part 1	Jan 25	
Lab 4	Accessibility analysis – Part 2	Feb 15	
Lab 5	Measuring accessibility by public transit	Mar 14	
Lab 6	Walkability analysis	Mar 21	

Exam

	Scope	Time	Format
Exam 1	Week 1-4	In class time, Thursday, Feb 8 th , 2024	Short essay questions
Exam 2	Week 6-11	In class time, Thursday, April 4 th , 2024	Short essay questions

Term Project

	Time (Due date)
Term Project Proposal (written)	Feb 28, 2024
Term Project Final Report (written)	April 21, 2024

6. Communication



- Students should check the OWL site every 24 – 48 hours
- A weekly update will be provided on the OWL announcements
- For any other communication, the centrally administered **e-mail account** provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. You can read about the privacy and security of the UWO email accounts [here](#).
- Emails will be monitored daily; students will receive a response in 24 – 48 hours, **excluding weekends**

7. Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.



Assessment	Weighting
Labs	30%
Exam 1	15%
Term Project Proposal	10%
Term Project Final Report	30%
Exam 2	15%

Students are responsible for material covered in the lectures as well as the assigned chapters/sections in the text.

- All assignments are due at **11:55 pm EST** unless otherwise specified
- Assignments will be accepted up to **48 hrs** after their scheduled due date, excluding weekends (e.g., if your lab is due on a Tuesday, you have until Thursday to hand it in).
- After an assessment is returned, students should wait 24 hours to digest feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days

Click [here](#) for a detailed and comprehensive set of policies and regulations concerning examinations and grading. The table below outlines the University-wide grade descriptors.

A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which is clearly above average
B	70-79	Good work, meeting all requirements, and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable
F	below 50	Fail



Information about late or missed evaluations:

- Assignments (Labs, Term Project Proposal, Term Project Final Report) will **NOT be accepted for grading more than 48 hours** (excluding weekends) after the scheduled due date & time (e.g., if your lab is due on a Tuesday, you have until Thursday to hand it in).
- Late assessments **without** illness self-reports will be subject to a late penalty **10 %/day**.
- Late assessments **with** illness self-reports should be submitted within 24 hours of submission of the last illness self-report.

Grades will not be adjusted on the basis of need. It is important to monitor your performance in the course. Remember: *You* are responsible for your grades in this course.

8. Accommodation Policies

Students with disabilities work with Accessible Education (formerly SSD) which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The accommodation policy can be found here: [Academic Accommodation for Students with Disabilities](#).

Academic Consideration for Student Absence

The University recognizes that a student's ability to meet their academic responsibilities may, on occasion, be impaired by medical illness. Illness may be acute (short term), or it may be chronic (long term), or chronic with acute episodes. The University further

recognizes that medical situations are deeply personal and respects the need for privacy and confidentiality in these matters. However, in order to ensure fairness and consistency for all students, academic accommodation for work representing 10% or more of the student's overall grade in the course shall be granted only in those cases where there is documentation indicating that the student was seriously affected by illness and could not reasonably be expected to meet their academic responsibilities.

[Policy on Academic Consideration for Medical Illness - Undergraduate Students](#)

[Student Medical Certificate \(SMC\)](#)

Religious Accommodation

Students should consult the University's list of recognized religious holidays, and should give reasonable notice in writing, prior to the holiday, to the Instructor and an Academic Counsellor if their course requirements will be affected by a religious observance.

Additional information is given in the [Western Multicultural Calendar](#).

9. How to Be Successful in this Class:

Students enrolled in this class should understand the level of autonomy and self-discipline required to be successful.



1. Invest in a planner or application to keep track of your courses. Populate all your deadlines at the start of the term and schedule time at the start of each week to get organized and manage your time.
2. Make it a daily habit to log onto OWL to ensure you have seen everything posted to help you succeed in this class.
3. Follow weekly checklists created on OWL or create your own to help you stay on track.



4. Take notes as you go through the lesson material. Keeping handwritten notes or even notes on a regular Word document will help you learn more effectively.
5. Connect with others. Try forming a study group and try meeting on a weekly basis for study and peer support.
6. Do not be afraid to ask questions. If you are struggling with a topic, check the online discussion boards or contact your instructor(s) and or teaching assistant(s).
7. Reward yourself for successes. It seems easier to motivate ourselves knowing that there is something waiting for us at the end of the task.

10. Academic Offences

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a [Scholastic Offence](#).

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the

system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

11. Western's Commitment to Accessibility

The Department of Geography and Environment strives at all times to provide accessibility to all faculty, staff, students and visitors in a way that respects the dignity and independence of people with disabilities.

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 519-661-2147 for any specific question regarding an accommodation. [Information regarding accommodation of exams](#) is available on the Registrar's website.

More information about "[Accessibility at Western](#)" is available.

12. Mental Health

If you or someone you know is experiencing distress, there are several resources here at Western to assist you. Please visit Western's [Health and Wellness website](#) for more information on mental health resources.

13. Support Services

[Western's Support Services](#)
[Student Development Centre](#)

14. Important Dates

Monday January 8: Classes resume

Tuesday January 16: Last day to add a second term half course

Monday February 19: Family Day – Department Office Closed

February 17 to February 25: Spring Reading Week (No classes; Department Office open)

Thursday March 7: Last day to drop a second term half course without academic penalty

Friday March 29: Good Friday – Department Office Closed

Monday April 8: Classes end

April 9 and 10: Study days

April 11-30: Examination Period