



Department of Geography – Orillia Campus.

Geography 4211 ‘Advanced GIS’

An advanced course in the applications of geographic information systems, spatial analysis, and the display of spatial data. Practical exercises will provide hands-on experience using GIS software. Specific applications covered depend upon the expertise of the instructor, this year we will focus mostly on ESRI PRO software.

Credit weight: 0.5.

Prerequisite(s): Geography 2232 and 2271; or permission of the Chair of the Department of Geography and the Environment

Type C: Engineering, Mathematical and Natural Sciences

Monday 5:30-8:30 in OA1002 and Tuesday 12:30-2:30 in OA1002

Instructor: Lisa TUTTY BSc (hon) MSc **Contact information:**

Email: ltutty@lakeheadu.ca (*that is an “L” for Lisa*); please email using your lakeheadu email and put the course code in the subject line. You can generally expect a response within 48 hours. Skype is fleminggeomatrics_Ltutty

Office hours: are Mon 1-2pm, Tues 10:30-noon, Wed 2:30-4pm, and Fri 12:30-2pm in OR1037 (residence building)

Course website: through D2L (you will find lectures, assignments, and labs, there, as well as much important information).

Course goals:

By the end of this course, you will be able to:

- a) Work with software to solve common GIS problems
- b) Attain some certifications from ESRI for completing GIS modules
- c) *Recall and apply course content* (knowledge and skills) to real life examples – assessed on tests.

Marks breakdown:

GIS lab assignments (in-class and in-lab; some will take > than one week to complete) – **70%** **NOTE: some labs are VERY dependent upon lectures and build upon one another as well**

Lab exam – Testing the skills that you have learned in lab - **30%** - **held during the exam period**

A+	90 to 100%	Outstanding understanding of the course concepts including integration of materials and ideas, ability to apply knowledge to situations
A	80 to 89%	Above average to excellent knowledge, ability to apply knowledge to situations
B	70 to 79%	Satisfactory knowledge including ability to recognise and apply major course concepts, and to progress to next level of course
C	60 to 69%	Some grasp of course concepts; will likely encounter difficulty with higher levels
D	50 to 59%	Failed to meet minimum requirements of the course
E	40 to 49%	Failure
F	1 to 39%	Failure resulting from academic dishonesty

Mark descriptions from Lakehead University. Students are advised to refer to the University Calendar to ensure that they have adequate grades and/or average to proceed in their program. Grades in this course are numerical (not letters).

Textbook (recommended, if you still have your copy from intro GIS, but not required): Chang, K., 2016. Introduction to Geographic Information Systems, 8th Edition (New York, NY: McGraw-Hill).

Course policies on lateness and absence:

Late submissions may be accepted however the late penalty is 10% per day, including weekends.

Absences and lateness: Due to the pandemic there has been a change for this term in the policies around illness. You may receive consideration for your late work (meaning no late penalty) if you submit an email to me at LTUTTY@LAKEHEADU.CA with this format:

Student Self-Declaration Email:

I am submitting this self-declaration as a request made in good faith for academic consideration due to illness that has temporarily impaired my physical health and ability to (write my exam/test) (submit my “X” assignment) as scheduled.

By making this declaration I am affirming these statements to be true. Once I have returned to good health, I will contact my professor directly via email to (arrange a new exam date) (arrange a new assignment submission date).

I understand that providing any false or misleading information, or using this self-declaration to delay or avoid fulfilling academic requirements, constitutes a breach of academic integrity as outlined in the Lakehead University’s Academic Integrity and Policies.

The late penalty for assignments (without consideration as described above) is 10% per day late, including weekends. Late assignments should be submitted to Lisa in the exact same manner as the on time assignments (i.e. NEVER submit by email – submit it via D2L or via LUGDC as was originally requested).

Students will **not** be given another opportunity to write the lab exam if it is missed a second time. In some cases, when extraordinary circumstances beyond a student’s control prevent him/her from completing the rescheduled lab test, a student may be eligible to petition Enrolment Services to explain the circumstances.

Student services:

Lakehead University has a **Student Health and Wellness Centre**. During the pandemic, there may be changes to normal operating procedures. Updated information can be found here: <https://www.lakeheadu.ca/students/wellness-recreation/student-health-and-wellness>

The University provides academic accommodations for students with disabilities in accordance with the terms of the Ontario Human Rights Code. This occurs through a collaborative process that acknowledges a collective obligation to develop an accessible learning environment that both meets the needs of students and preserves the essential academic requirements of the University's courses and programs.

Lakehead University has a **Student Accessibility Services (SAS)** office which provides support services and advocacy on behalf of students with disabilities. The SAS office is located in OA 1030 (Orillia Academic Building).

Phone: +1 (705) 330-4008 ext. 2103 Email: oraccess@lakeheadu.ca

Student Success Centre: There will be updated information soon - <https://www.lakeheadu.ca/students/academic-success/student-success-centre>

Lakehead University Library services: Use it to search for journal articles, books, etc. They are also fabulous supporters of research if you need help for any of your classes! <http://library.lakeheadu.ca/>

Technology Services Centre Helpdesk: TSC Helpdesk is the liaison between Lakehead University's IT services and users (Students, Faculty & Staff and by extension to guests and visitors). The principal purpose of the Helpdesk is to provide quick resolution to inquiries. <https://www.lakeheadu.ca/faculty-and-staff/departments/services/tsc>

Academic integrity – <https://www.lakeheadu.ca/faculty-and-staff/policies>

Academic Integrity:

Academic integrity is fundamental to learning and scholarship at Lakehead University. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that the degree that you earn will be valued as a true indication of your individual academic achievement, and will continue to

receive the respect and recognition it deserves. The University takes a most serious view of offences against academic honesty such as plagiarism, cheating and impersonation. Penalties for dealing with such offences will be strictly enforced.

The appropriate sections on plagiarism and other forms of misconduct may be found on the Lakehead University website.

Potential offences include, but are not limited to:

In papers and assignments:

- Using someone else's ideas or words without appropriate acknowledgement.
- Copying material word-for-word from a source (including lecture and study group notes) and not placing the words within quotation marks.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Including references to sources that you did not use.
- Obtaining or providing unauthorized assistance on any assignment including:
 - Working in groups on assignments that are supposed to be individual work;
 - Having someone rewrite or add material to your work while "editing".
 - Lending your work to a classmate who submits it as his/her own without your permission.

On tests and exams:

- Using or possessing any unauthorized aid, including a cell phone.
- Looking at someone else's answers
- Letting someone else look at your answers.
- Misrepresenting your identity.

- Submitting an altered test for re-grading.

Misrepresentation:

- Falsifying or altering any documentation required by the University, including doctor's notes.
- Falsifying institutional documents or grades.

Neat 15 minute exercise from Cardiff University (Avoiding plagiarism):
https://xerte.cardiff.ac.uk/play_4216