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Office Hours: T 13:30-14:30 or by appointment

Lab Date & Time: M: 2:30-4:20pm
W: 10:30-12:20pm
W: 2:30-4:20-pm

Course Date & Time: T/Th: 8:30-9:45 am
Course Location: 4CM13

Lab Location: 5L23

Semester Start Date: Monday, January 8, 2024
Semester End Date: Friday, April 5, 2024

Course Description and Objectives

This course provides a systematic overview of GIS methodology and theory covering the essential principles of data acquisition, input, manipulation, and output. The laboratory component of this course provides an array of fields and GIS are increasingly being used for practical applications such as facility location, environmental impact assessment, urban planning, transportation, and tracking crime data, just to name a few.

Specific objectives include:

1. Providing basic GIS concepts.
2. Acquiring basic GIS application skills.
3. Understanding the fundamentals of GIS tasks such as digitizing, thematic mapping, database management and spatial analysis.
4. Familiarization with the ArcGIS software.

A geographic information system (GIS) displaying all forms of geographically referenced information. GIS allows us to view, manipulate, and visualize data in many ways that reveal relationships, patterns, and trends in the form of maps, globes, reports, and charts. A GIS helps you answer questions and solve problems by looking at your data in a way that is quickly understood and easily shared. (Source: ESRI -

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Student Evaluation and Grading

The course is broken down into two major components. A theoretical component which comprises classroom materials and their associated tests and exams (60% of course grade) and an applied component represented by the laboratory assignments and exam (40% of course grade).

Component	Date (Due)	Percent of Final Grade
Mid-Term Exam	Thursday, February 15, 2024	25
Final Exam	T.B.D	35
Lab Assignments	As stated in lab assignment	25
Lab Exam	Week of March 25, 2024 in lab.	15

*Dates and times are subject to change. Where a discrepancy exists the official university final exam schedule will supersede the above date (<http://www.uwinnipeg.ca/exam-schedules/>)

The following grade distribution by letter grade will be used for this class.

Grade	A+	A	A-
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Course Organization

The following course organization outlines the topics of discussion during lectures. The order, dates, and proposed content of the presentations are subject to change as circumstances dictate. We may also not be able to cover the entire curriculum due to the interest of the class in examining in more detail some of the topics compared to others.

Week Of	Date	Topic	Lab Assignment
Jan 8 (1)	Tuesday Thursday	Course Overview, Objectives Introduction to GIS	
Jan 15 (2)	Tuesday Thursday	Data Models	Lab #1 – Intro to ArcGIS Pro
Jan 22 (3)	Tuesday Thursday	Geodesy, Datums, Projections and Coordinate Systems	Lab #2 – Finding Data and Styles
Jan 29 (4)	Tuesday Thursday	Maps, Data Entry, Editing and Output	Lab#3 – Spatial Analysis
Feb 05 (5)	Tuesday Thursday	Data Sources, Attributes, and Tables	Lab #4 – Raster Analysis
Feb 12 (6)	Tuesday Thursday	Mid-Term Exam Review Mid-Term Exam	Lab #5 – DEM and Stream Networks
Feb 19 (7)	Tuesday Thursday	Reading Week – No Classes	

9. **Misuse of Filesharing Sites.** Uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves “aiding and abetting” plagiarism. Students who do this can be charged with Academic Misconduct.

10. **Avoiding Copyright Violation**

15. **Exam/Test Policies:** As a result of on-line instruction, students may be asked to turn on their camera and show their face alongside their university ID to prove their identity. If exams are in person, students will be required to show their University Issued ID.
16. **Missed Test/Exam Policy:** There are six acceptable excuses for an individual missing an exam or test. They are:
- Illness:** I will need an official certificate from your doctor verifying that you have a medical condition that precluded you from writing the schedule exam/test. *The note must indicate either the day(s) you were unable to attend class and/or the return to work/school date, not simply the day you were seen by the medical practitioner.* You will also be required, within reason, to notify the instructor as early as possible prior to, or immediately after the scheduled date. An email will suffice.
 - Funeral Attendance:** I will need proof of funeral attendance with the date of the ceremony clearly listed.
 - Mandatory Courtroom Appearance:** I will need a copy of your official court summons with the date of attendance clearly listed.
 - Athletic Participation and other Approved University Activities:** I will need a signed letter from a member of the senior coaching staff, program director, instructor, or other supervisory individuals indicating the day(s) you will be absent.
 - Inclement Weather:** Bad weather happens, if you are held up because of poor travel conditions contact the instructor as soon as possible to make alternate arrangements. In this situation the test/exam will be made-up later the same day or the following day, whenever possible.
 - Religious Holiday:** Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the Undergraduate Academic Calendar.
<http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf>.
17. In all situations, the makeup test/exam will occur **within 5 school days** of the missed date. In the event of illness this deadline will be **within 5 school days** from the “**return to work**” date noted on the medical certificate. It is the student’s responsibility to schedule the makeup exam. Failure to schedule within the defined timeline will result in a grade of zero (0) for that test/exam.
18. **Final Exam Deferrals:** A legitimate exam conflict is defined as two (2) exams scheduled at the same time. You need to identify early any conflicts that may exist. Conflicts should attempt to be resolved by the student and the instructor(s), if a resolution cannot be reached students must submit the appropriate formal appeal (<http://www.uwinnipeg.ca/index/exam-conflict>). It is the student's responsibility to initiate the resolution of any conflicts. *Personal conflicts such as travel plans, and work schedules do not warrant a change in examination times. The date, time and location of the final exam are contained in this syllabus.*
19. **Late Penalties:** Assignments submitted late (and without a valid excuse) will be assessed a late penalty of 10%/day reduction in grade to a maximum of a 50% reduction whereby the assignment will be awarded a (ho)1

20. **Course Communication:** Students are reminded that only their University of Winnipeg email address will be used for course related correspondence or through the email system on NEXUS. **The instructor will not respond to messages that do not originate from either of these sources.** Students have the responsibility to regularly check their UWinnipeg e-mail addresses to ensure timely receipt of correspondence from the University and/or their course instructors.

21. **Make-Up or Bonus Work:** There will be NO make-up work or bonus material of any kind.

The information presented in this course is the intellectual property of the instructor(s) and is presented for the benefit of registered students only. Any audio, video, or virtual reproduction of the lectures or labs, either in whole or in part, without the express written consent of the instructor(s) is strictly prohibited. In the event of extenuating circumstances, I reserve the right to make changes to any information presented in this document, after consulting with, or with the approval of, the class. Changes in test dates require the unanimous approval of those who were in attendance in class when the changes were discussed.