

The University of Winnipeg
Department of Geography

GEOG2316(3)-001
Introduction to Remote Sensing

Winter Term: T/Th 1:00pm – 2:15pm 3BC56
Labs: 070 Monday 11:30 am 4:20p

Required Textbook

There is no official textbook for the course. There are introductory text books available in the library, any version will do. Additional materials related to this course will be available on Nexus. All materials posted on NEXUS within the course content areas are required reading unless otherwise stated. Students should consider all posted materials as suitable content for exams.

Suggested Text(s) (for those that wish to use one)

Jensen, J. R., & Lulla, K. (any version). Introductory digital image processing: a remote sensing perspective.

Lillesand, T., Kiefer, R. W., & Chipman, J. (any version). Remote sensing and image interpretation. John Wiley & Sons.

NEXUS

Documents related to this course (e.g., course syllabus, project guidelines, lecture slides, supplemental readings) will be made available to students through the Nexus system. You must be registered in the course to have access to these materials. To login in to Nexus, go to: <https://nexus.uwinnipeg.ca/>

If you encounter difficulties with Nexus contact the help desk at 204-786-9149 or help.desk@uwinnipeg.ca.

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).

Lab 070 (Monday 11:30 am - 1:20pm) Lockhart Hall 5L25
Lab 071 (Thursday 2:30 pm - 4:20 pm) Lockhart Hall 5L25

The expectations for lab assignments will be verbally delivered during the lab. All assignments are due at the start of following lab time. It is the responsibility of the student to ensure that the files are submitted in a readable format (e.g., Microsoft Word, ppt, pdf). Citations and references should be submitted in a consistent manner (choose APA Style or Chicago style, and stick with it). More information about styles are available from the library. When looking at citation style, it is important to observe style conventions regarding punctuation, capitalization, use of initials, indentation, identification of cities, etc.)

Lab assignments are graded on a three-point scale (0-poor/not submitted, 1-acceptable, 2-excellent). Assignments are due at the beginning of the student's lab session on the due date specified in the assignment handout. No late lab

*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/examschedules/>)

Course Organization

The following course organization outlines the topics to be discussed during lectures. The order, dates, and proposed content of the presentations are subject to change as circumstances dictate for example the change of term beginning date to January 8th. 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	Topic	Lab Assignment
1	Introduction to Remote Sensing and DataCollection	No Lab this week
2	Energy Sources and Radiation Principles	lab #1: Image Acquisition
	Principles of Image Interpretation	Lab #2: Image Interpretation
	Image Quality Assessment and Statistical Evaluation	Lab #3: Image Quality Assessment
	Image Enhancements	Lab #4: Image Enhancements
	Midterm Review Midterm Exam(Feb15)	Lab #5: Unsupervised Classification

Grading

The University does not have a standardized grading scheme. For this course, grade equivalents are as follows:

A+	90-100 %	C+	65-69.9 %
A	84-89.9 %	C	56-64.9%
A-	80-83.9%	D	50-55.9 %
B+	75-79.9 %	F	less than 50 %
B	70-74.9 %		

The numeric boundaries separating letter grades may be altered at the request of the Department Review Committee or University Senate.

1. When it is necessary to cancel a class due to exceptional circumstances, I will make every effort to inform students via uwinnipeg or Nexus email (and/or using the preferred form of communication, as designated in this outline), as well as the Departmental Assistant and Chair/Dean so that class cancellation forms can be posted outside classrooms.

2. Students are reminded that they have a responsibility to regularly check their uwinnipeg or nexus e-mail addresses to ensuesir.

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7. **Avoiding Academic and Non-academic Misconduct** Students are encouraged to familiarize themselves with the Regulations and Policies found in the University Academic Calendar at <https://www.uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>. Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals), and 10 (Grade Appeals). It cannot be stressed enough the importance of maintaining academic integrity and the potential consequences or engaging in plagiarism, cheating and other forms can be quite severe. Even unintentional plagiarism, as described in the UW Library video tutorial “Avoiding Plagiarism” (<https://www.youtube.com/watch?v=UvFdxRU9a8s>), is a form of academic misconduct. Similarly, 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) is a form of misconduct, as it involves aiding and abetting plagiarism. Important information is outlined in the Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutionalanalysis/docs/policies/academicmisconductpolicy.pdf> and <https://www.uwinnipeg.ca/institutionalanalysis/docs/policies/academicmisconductprocedures.pdf>

8. **Privacy** Students should be reminded of their rights in relation to the collecting of personal data by the University (<https://www.uwinnipeg.ca/privacy/admissions/privacynotice.html>), especially if Zoom (or equivalent) is being used for remote teaching (<https://www.uwinnipeg.ca/privacy/zoom/privacynotice.html>) and testing/proctoring (<https://www.uwinnipeg.ca/privacy/zoom/test-and-exam-proctoring.html>).

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** Course materials are owned by the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides. Students who upload these materials to filesharing sites, or other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also seek prior permission of the instructor /presenter before photographing or recording slides, presentations, lectures, and notes on the board.

11. **Academic Integrity and AI Text-generating Tools** Students must follow principles of academic integrity (e.g., honesty, respect, fairness, and responsibility) in their use of material obtained through AI text-generating tools (e.g., ChatGPT, Bing, Notion AI). If an instructor prohibits the use of AI tools in a course, students may face an allegation of academic misconduct if using them to do assignments. If AI tools are permitted, students must cite them. According to the ML2 8A1 (A)-16.9 ()TJ EMC aem C (d)-0.7 (e)-

12. Research Ethics. Students conducting research interviews, focus groups, surveys, or any other method of collecting data from any person, including a family member, must obtain research ethics

- f. 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 2024 Undergraduate Academic Calendar.

<http://uwinnipeg.ca/academics/calendar/docs/importantnotes.pdf>

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