

GEOG-1205(3)-001
Science for a Dynamic World: An Introduction to Physical Geography
 Fall Term 2023 (Sep to Dec)

Course Instructor: Dr. Danny Blair
Office: 5L33 (5th floor Lockhart Hall)
Phone: (204) 786-9236
Classroom: **5L24** (5th floor Lockhart Hall)
Lectures: **Mon/Wed/Fri, 1:30-2:20 pm**
Office Hours: Mon/Wed 10:30 – 11:30 am; or (preferred) by appointment at other times
Email: d.blair@uwinnipeg.ca

Note: This course has a lab component. Information about the labs is found further down in this course outline.

TEXTBOOK (Recommended):

Geosystems: An Introduction to Physical Geography

Updated 4th Canadian edition, e-book

R.W. Christopherson, G.H. Birkeland, M.-L. Byrne, and P.T. Giles (2019)

Pearson Education, Inc. ISBN 978-0-13-340552-1.

Textbook Website (where you can buy it much cheaper than thru the bookstore):

<https://www.pearson.com/store/p/geosystems-an-introduction-to-physical-geography-updated-fourth-canadian-edition/P100002992950>

LECTURES:

- Students are expected to be present during our regular meeting times, every Monday, Wednesday, and Friday, 1:30-2:20 pm.
- Attending the course lectures is vital to your understanding of the course content.
- The instructor will upload the lecture slides and supplementary materials on Nexus for the students to access and download.
- Students are responsible for keeping up with weekly materials in class and on Nexus.
- Lectures and labs are complementary. It may be beneficial to review course materials before your weekly lab.

NEXUS SITE FOR LECTURES:

The slide presentations used in lectures will be posted on Nexus (<https://nexus.uwinnipeg.ca/>). Reading lists, useful links, and supplementary material will be posted as well.

If you are having difficulties with Nexus contact the help desk at (204) 786-9149 or help.desk@uwinnipeg.ca.

This course is Nexus enhanced. All information posted on the Nexus site for this course is required reading unless otherwise indicated.

HOW TO CONTACT PROFESSOR BLAIR:

Use your University of Winnipeg email address for course-related correspondence (name@webmail.uwinnipeg.ca). **Do not use the Nexus email function.** Please do not use your gmail or hotmail (or whatever) accounts to correspond with the instructor; these usually get blocked by our spam filter. When contacting the instructor, please make sure you use a proper subject heading for the email (e.g. "Physical Geography question"). The instructor will make every

attempt to respond promptly, except on weekends. The instructor will use your University of Winnipeg email to contact you, when necessary.

Students have the responsibility to check their University of Winnipeg e-mail addresses regularly to ensure timely receipt of correspondence from the University and/or their course instructors.

DISCORD ONLINE FORUM SITE:

- Dr. Maillet, the Lab Coordinator (who also teaches another section of this course), has kindly created an 'Intro Geo' Discord site in which students can ask each other questions, provide answers, share study tips and resources, and generally create a community to enhance your learning.
- The instructors will moderate and engage in the discussions at times.
- All correspondence on this site must be respectful and related to the course.
- Go to the "Intro Geo" Discord forum at <https://discord.gg/BsXXSxjyFT>

COURSE DESCRIPTION:

This course examines the processes that have shaped, and are shaping, our physical world. In particular, this course provides an introduction to fundamental concepts developed and applied in the important sub-fields of physical geography. Including meteorology, climatology, geology, hydrology, and geomorphology.

LEARNING OUTCOMES:

By the end of this course students should be able to describe or explain and better understand:

- the primary elements that make up the atmosphere and its vertical structure
- the nature of EMR and the other forms of energy important in the climate system
- the factors affecting incoming solar radiation and outgoing terrestrial radiation
- the components and characteristics of Earth's energy balance
- the forces that drive winds in the atmosphere and currents in the oceans
- earth's pressure, wind, and temperature patterns
- the characteristics of cyclones, anticyclones, air masses and fronts
- the processes related to the formation of cloud and precipitation
- the basic methods and tools involved in weather monitoring and forecasting
- the basic characteristics of thunderstorms, hurricanes, and extreme weather
- the history of earth, its physical structure, and dynamic cycles
- plate tectonics and their role in orogenesis, faulting, earthquakes, and volcanism
- various processes related to weathering (erosion, transportation, and deposition)
- mass movement mechanics and human impacts on this system
- the characteristics of, and impacts on, fluvial landscapes
- the concept of geomorphology and the identification of landscape features in a wide range of environments
- the basic causes of climate change, past, present, and future

TOPICS FOR DISCUSSION:

The following topics will be covered during the lectures. Due to time constraints and/or unforeseen circumstances, the instructor reserves the right to alter the topics and/or the order of presentation. The listed readings may be found in the recommended textbook, and more precise page ranges are offered on the lecture slides. Additional required readings and/or supplementary materials may be posted on the course Nexus site for review. Students are advised to complete each reading prior to reviewing associated materials posted to Nexus. Unless otherwise indicated, you are responsible for understanding all topics covered in these readings and supplementary materials.

TOPICS	READINGS
INTRODUCTION / ESSENTIALS OF GEOGRAPHY: Introduction to the course and to physical geography. Course outline, grading, regulations, expectations. Physical geography as a discipline and foundation for the environmental sciences; scale of study; systems; location and time.	Chapter 1
THE ATMOSPHERE: Atmospheric composition and structure, concepts of temperature/pressure/density, temperature profile, lapse rates, functional layers.	Chapter 3 Chapter 6
EARTH-SUN RELATIONSHIPS: The seasons, revolution, rotation, tilt, axial parallelism, sphericity, aphelion, perihelion, solstices/equinoxes, declination, subsolar point.	Chapter 2
RADIATION AND ENERGY BALANCE: Energy, electromagnetic radiation, solar/terrestrial radiation, solar constant, shortwave vs longwave, insolation, transmission, absorption, reflection, scattering, net radiation, conduction, convection, latent heat, energy balance, greenhouse effect, surface energy balance.	Chapter 2 Chapter 4
GLOBAL TEMPERATURE: Temperature controls, land-water contrasts, maritime-continental effects, global temperature patterns, isotherms, wind chill, heat index.	Chapter 5
PRESSURE, WINDS, AND OCEAN CURRENTS: Atmospheric pressure, forces that drive wind, cyclones and anti-cyclones, geostrophic winds, global pressure and wind patterns, jet streams, ocean currents.	Chapter 6
WATER, HUMIDITY, AND PRECIPITATION: Water on earth, hydrologic cycle, humidity, saturation, relative humidity, dew-point temperature, Stability vs. Instability, adiabatic process, formation of cloud, cloud classification, types of fog, types of precipitation.	Chapter 7 Chapter 9
WEATHER: Types of air masses, lifting mechanisms, fronts, midlatitude cyclones, thunderstorms, tornadoes, extreme weather, tropical cyclones.	Chapter 7 Chapter 8
THE DYNAMIC PLANET: Geologic time scale, earth's "layers" (core to crust), isostasy, the rock cycle, plate tectonics.	Chapter 12
TECTONICS, EARTHQUAKES AND VOLCANISM: Relief, crustal formation, continental shield, folding and warping, types of faults, mountain building, earthquakes, volcanism.	Chapter 13
WEATHERING AND MASS MOVEMENT: Denudation, slopes, physical and chemical weathering, karst, mass movement mechanics, types of mass movement, humans as geomorphic agents.	Chapter 14
RIVER SYSTEMS: Drainage divides and basins, types of drainage patterns, graded streams, base level, hydrographs, impact of urbanization, measuring discharge, stream channel patterns.	Chapter 15
GEOMORPHOLOGY AND GLACIATION: Fluvial processes and landforms, coastal processes and landforms, wind processes and landforms, formation of glacier ice, types of glaciers, mass balance, glacial movement, glacial landforms.	Chapter 15 Chapter 16 Chapter 17
CLIMATE VARIABILITY AND CHANGE: Carbon dioxide over the last million(ish) years, isotopes and paleoclimate, earth's climate history, Milankovitch cycles, climate models, causes of current climate change, mitigation / adaptation.	Chapter 11

IMPORTANT DATES:

Normal Fall Lecture Period Begins	Tue. Sep. 5 th , 2023
First Lecture in This Course	Wed. Sep. 6 th , 2023
Period when Fall and Fall/Winter Term Course Registration, Course Adds/Drops and Section Changes Occur	Sep. 5 th – 18 th , 2023
Truth and Reconciliation Day – University Closed	Sat. Sep. 30 th , 2023
Midterm Reading Week – No Classes	Oct. 8 th – 14 th , 2023
Thanksgiving Day – University Closed	Mon. Oct. 9 th , 2023
MIDTERM THEORY EXAM	Fri. Oct. 20 th , 2023 (in class)
Remembrance Day – University Closed	Sat. Nov. 11 th , 2023
Final Date to Withdraw Without Academic Penalty	Mon. Nov. 13 th , 2023
Last Lecture in This Course	Mon. Dec. 4 th , 2023
Final Exam Period	Dec. 7 th – 20 th , 2023

**Please refer to the 2023 - 2024 Undergraduate Academic Calendar for additional dates and schedules.*

STUDENT EVALUATION:

LAB ASSIGNMENTS	40%	DUE DATES: prior to the start of the next lab; or as indicated by the Lab Instructor.
MIDTERM THEORY TEST	20%	Friday October 20, 2023 (1:30 – 2:20 pm)
FINAL THEORY EXAM	40%	TBA; check https://www.uwinnipeg.ca/exam-schedules/

*** Final grades will be assigned based on accumulated marks from the above components, but you must pass the lab component of the course to pass the course.**

*In the Lab, there are 9 lab assignments, and 2 supplementary activities. Each assignment will contribute 4%, and each supplementary activity 2%, to the total of 40%.

* Lab due dates: as indicated by your lab instructor (see below). Late submissions will not be accepted for grading (except in circumstances where the lab instructor agrees that good reason has been provided). If a lab assignment is turned in late, without an appropriate reason, a grade of “zero” will be assigned. Please send an email to your lab instructor (see email addresses listed below) if an issue arises that will prevent you from submitting your lab assignment on time. Be sure to ask for extensions well in advance.

GRADES:

Senate approved grades for courses include A+, A, A-, B+, B, C+, C, D, and F. The University does not have a standardized numerical grade conversion scale for each letter grade. The following numeric grading system **provides guidelines** only for the separation of letter grades in this course. These boundaries may be adjusted at the requested of the Geography Department Review Committee or University Senate. For this course, grade equivalents are as follows:

A+ = 90% and up	B+ = 75.0-79.9	C+ = 65.0-69.9	D = 50.0-54.9
A = 83.0-89.9	B = 70.0-74.9	C = 55.0-64.9	F= 49.9 and below
A- = 80.0-82.9			

IMPORTANT: If you do not achieve a passing mark (at least 50% of available marks) in the lab (i.e., the assignments worth 40% of the course) you will be assigned a grade of F in the course.

The Final Theory Exam must be written as scheduled in the 2023-2024 Final Exam Schedule; alternate dates will not be considered. If you have a Final Theory Exam conflict (i.e., two final exams

on the same date and time), or if exceptional circumstances prevent you from writing the exam as scheduled, you must contact Academic Advising immediately, otherwise, you must write the final exam as scheduled. Please refer to section 9d, of Regulation and Policies in the 2023-2024 Undergraduate Academic Calendar link: (<http://www.uwinnipeg.ca/index/calendar-calendar>). Alternate test dates will be considered in very exceptional cases and for legitimate reasons only; vacation travel is not an acceptable reason. If you miss a test, you must contact your instructor as soon as possible. Documentation (i.e., proof of illness or circumstances beyond your control) may be required before alternate arrangements can be made.

TEST/EXAM IDENTIFICATION POLICY:

Students must be prepared to show their university ID card at all tests/exams.

TEST/EXAM AUTHORIZED EQUIPMENT:

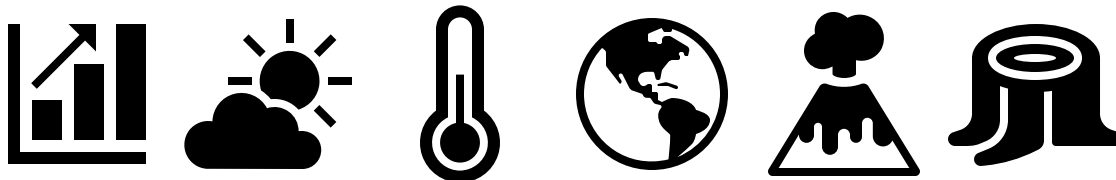
For the Midterm Theory Test and the Final Theory Exam, you are not allowed to use dictionaries, calculators, or any other kind of electronic device. They are not 'open book' tests/exams. You will only need a pen/pencil.

VOLUNTARY WITHDRAWAL FROM COURSE:

Please refer to the 2023 - 2024 Undergraduate Academic Calendar for voluntary withdrawal procedures. Please contact the course instructor if you are thinking of withdrawing from the course.

You must formally withdraw from a course. If you simply stop going to classes, you may receive an "F" on your transcript and loss of tuition credit. Withdrawing before the VW date does not necessarily result in a fee refund.

IMPORTANT: MONDAY November 13TH is the FINAL DATE to withdraw without academic penalty from courses which begin in September and end in December of the 2023 Fall Term.



INFORMATION ABOUT THE LAB COMPONENT OF THIS COURSE:

LAB COORDINATOR: Dr. Jay Maillet

Email: j.maillet@uwinnipeg.ca

Note: Dr. Maillet is your contact for all issues related to labs.

LAB INSTRUCTORS:

Indeera Hetti Archchige:

hettiarachchige-i@webmail.uwinnipeg.ca

Aishika Dissanayake Mudiyansele:

dissanayakemudiyana-a@webmail.uwinnipeg.ca

Lila Asher:

asher-l71@webmail.uwinnipeg.ca

LAB SCHEDULE:

Students must be registered in one of the following lab sections:

Section	Day	Time	Room	Instructor
GEOG-1205L-070	Monday	9:30 – 12:20	4CM42	Jay
GEOG-1205L-071	Tuesday	11:30 – 2:20	4CM42	Indeera
GEOG-1205L-072	Wednesday	10:30 – 1:20	4CM42	Aishika
GEOG-1205L-073	Thursday	1:00 – 3:50	4CM42	Lila

ABOUT THE LABS:

- The labs are considered integral parts of the course and will be presented as such.
- Therefore, it is the responsibility of the student to attend all scheduled labs and to complete the assignments as required. **You are expected to attend your labs.**
- **You must achieve a passing mark in the lab in order to pass the course.**
- All information pertaining to the lab will be posted to the dedicated lab Nexus site.
- Labs in this course will begin the week of **September 11th** and will be conducted in-person (sections 070 – 073), in room 4CM42. Please review all materials posted to your lab's Nexus prior to attending your lab.
- Your total lab mark is determined by the marks you obtain in your lab assignments or activities. **There is no final lab exam.**
- Completed lab assignments are to be submitted digitally (unless otherwise indicated), uploaded to Nexus in a single file of appropriate type (PDF or Word). These are due the following week, prior to your regular lab time.
 - e.g., for section 070 (Monday 09:30 – 12:20), each lab assignment is due by 9:29 am the following Monday.

NEXUS SITE FOR LABS:

Materials for labs (sections 070 - 073) are posted on a separate Nexus site.

NETIQUETTE:

Students are expected to conduct themselves in a professional manner when engaging with each other, the course instructor, the lab instructors, and teaching assistant. Most importantly, be respectful. Note: tone is quite tricky in an online environment, be sure to re-read things like emails and posts before sending / posting. For tips and tricks: <https://www.rasmussen.edu/student-experience/college-life/netiquette-guidelines-every-online-student-needs-to-know/> And <https://www.grammarly.com/blog/email-etiquette-rules-to-know/>

OTHER INFORMATION

1. A permitted or necessary change in mode of delivery may require adjustments to important aspects of course outlines, like class schedule and the number, nature, and weighting of assignments and/or exams.
2. Students can find answers to frequently asked questions related to remote learning here: <https://www.uwinnipeg.ca/covid-19/index.html>
3. When it is necessary to cancel classes due to exceptional circumstances, the instructor will make every effort to inform you via uwinnipeg email, and/or using NEXUS announcements.
4. Students have the responsibility to regularly check their University of Winnipeg e-mail addresses, as well as NEXUS announcements, to ensure timely receipt of correspondence from the University and/or their course instructors.
5. Please note that withdrawing before the VW date does not necessarily result in a fee refund.
6. No classes: October 8th – 14th, 2023; Mid-Term Reading Week.
7. The first day of classes (all) is September 5th, 2023; our class starts on the 6th. Lectures end December 4th, 2023. The Fall 2023 evaluation period runs from December 7th – 20th, 2023. See <https://www.uwinnipeg.ca/academics/calendar/docs/dates.pdf> for all dates.

ACADEMIC REGULATIONS, POLICIES, AND ACADEMIC INTEGRITY

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).

A summary of important information regarding Academic Misconduct follows. Where discrepancies exist between the text below and the Course Calendar, the Course Calendar will prevail.

Academic Misconduct

Detailed information can be found at the following:

- Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-policy.pdf>
- <https://pace.uwinnipegcourses.ca/sites/default/files/pdfs/publications/Academic%20Misconduct%20Procedures.pdf>
- Non-Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/student-non-academic-misconduct-policy.pdf>

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.

Avoiding Copyright Violation. Course materials are the property of the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides—irrespective of format. Students who upload these materials to filesharing sites, or in any 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, for example, photographing, recording, or taking screenshots of slides, presentations, lectures, and notes on the board. Students found to be in violation of an instructor’s intellectual property rights could face serious consequences pursuant to the Academic Misconduct or Non-Academic Misconduct Policy; such consequences could possibly involve legal sanction under the Copyright Policy (<https://copyright.uwinnipeg.ca/basics/copyright-policy.html>).

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 approval before commencing data collection. Exceptions are research activities done in class as a learning exercise. For submission requirements and deadlines, see <http://www.uwinnipeg.ca/research/human-ethics.html>

Plagiarism. Even unintentional plagiarism, as described in the UW Library video tutorial “Avoiding Plagiarism” (<https://www.youtube.com/watch?v=UvFdxRU9a8g>), 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. An updated and expanded U of Winnipeg library site outlining principles of Academic Integrity can be found at <https://library.uwinnipeg.ca/use-the-library/help-with-research/academic-integrity.html>.

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 MLA (<https://style.mla.org/citing-generative-ai/>), “you should

1. cite a generative AI tool whenever you paraphrase, quote, or incorporate into your own work any content (whether text, image, data, or other) that was created by it
2. acknowledge all functional uses of the tool (like editing your prose or translating words) in a note, your text, or another suitable location
3. take care to vet the secondary sources it cites”

If students aren’t sure whether or not they can use AI tools, they should ask their professors.

Forms of Academic Misconduct

See online: <http://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>

- **Plagiarism:** includes presenting other people’s published or unpublished work in part or as a whole as your own. This includes material from lab manuals, essays, journal articles, books, etc. Plagiarism also refers to submitting the same work in more than one course without both instructors’ permission and to the situation where two or more students submit identical (or nearly identical) work for evaluation when the work was to be completed individually.
- **Cheating:** includes copying another person’s answer on a test, communicating with another person during a test or exam, consulting unauthorized sources (including written and electronic sources), obtaining a copy (of all or part) of a test/exam/assignment before

it is officially available, purchasing tests, essays or other assignments and submitting the work as your own.

- Improper Academic/Research practices: include fabricating or falsifying results, using other peoples' research findings without permission, misrepresenting research results or methods, referring to non-existent sources or investigators, or contravening the University's Policy and Procedures on Research Integrity.
- Obstructing academic activities of another person: for example interfering with another person's access to pertinent resources or information to gain academic advantage.
- Impersonation: both impersonation of another individual or allowing someone to impersonate you.
- Falsification or Modification of an Academic Record: including tests, transcripts, letters of permission, etc.
- Aiding and Abetting Academic Misconduct.

Penalties for Academic Misconduct

Penalties for academic misconduct include, but are not limited to:

- Written warning
- Lower or failing grade on an assignment or test
- Lower or failing grade in a course
- Denial of admission or readmission to the University
- Forfeiture of University awards or financial assistance
- Suspension from the University for a specified period of time
- Withholding or rescinding a U or W degree, certificate or diploma
- Expulsion from the University

Procedures for Academic Misconduct

All allegations of academic misconduct must be reported initiating a process which involves several steps. These include procedures involving the instructor of the course in which the misconduct is alleged to have occurred, the Departmental Review Committee, and the Senate Academic Misconduct Committee. Students facing a charge of academic or non-academic misconduct may choose to contact the UWSA Student Advocacy Centre where Student advocates will be available to answer any questions about the process, help with building a case and ensuring students have access to representation. For more information or to schedule an appointment, visit the UWSA website at www.theuwsa.ca/academic-advocacy or call 204-786-9780.

Non-Academic Misconduct / Respectful Learning Environment

Students are expected to conduct themselves in a respectful manner on campus and in the learning environment irrespective of platform being used. Behaviour, communication, or acts that are inconsistent with a number of UW policies could be considered non-academic misconduct. See the Respectful Working and Learning Environment Policy (<https://www.uwinnipeg.ca/respect/respect-policy.html>) and Acceptable Use of Information Technology Policy (<https://www.uwinnipeg.ca/institutional-analysis/docs/policies/acceptable-use-of-information-technology-policy.pdf>). More detailed information is outlined in the Non-Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/student-non-academic-misconduct-policy.pdf>

UNIVERSITY SERVICE INFORMATION

Accessibility Services

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 204-786-9771 or

accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential.
<http://www.uwinnipeg.ca/accessibility>.

Indigenous Student Services

Indigenous students seeking additional supports, academic or other, are encouraged to contact the Aboriginal Student Services Centre (ASSC). The ASSC offers a variety of support services, and was created to maintain a safe, educational and culturally sensitive environment for all Aboriginal students (First Nation, Metis and Inuit) as they pursue their academic studies at The University of Winnipeg. More information can be found at: <http://www.uwinnipeg.ca/assc/>

Respectful Working and Learning Environment Policy

All students, faculty and staff have the right to participate, learn, and work in an environment that is free of harassment and discrimination. The UW Respectful Working and Learning Environment Policy may be found online at www.uwinnipeg.ca/respect.

Academic Accommodation for Religious Reasons

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 an opportunity for students to make up examinations without penalty. A list of religious holidays can be found at: <http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf>

Student Wellness

The University of Winnipeg provides comprehensive general and specialized counselling and health services to all students for free at the Wellness Centre, located on the first floor of Duckworth Centre (1D25). For more information see <https://www.uwinnipeg.ca/student-wellness/>

Privacy

Students are encouraged to familiarize themselves with their rights in relation to the collecting of personal data by the University (<https://www.uwinnipeg.ca/privacy/admissions-privacy-notice.html>), especially if Zoom is being used for remote teaching (<https://www.uwinnipeg.ca/privacy/zoom-privacy-notice.html>) and testing/proctoring (<https://www.uwinnipeg.ca/privacy/zoom-test-and-exam-proctoring.html>).

The instructor retains the right to make changes to the above course structure and procedures as circumstances require.
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In the event of extenuating circumstances, the instructor reserves 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 the class.

Note: 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, or any posting or distribution of course materials, either in whole or in part, without the express written consent of the instructor(s) is strictly prohibited.