

THE UNIVERSITY OF WINNIPEG
DEPARTMENT OF GEOGRAPHY
INTRODUCTORY EARTH SCIENCE
2022 SPRING TERM
May 2nd – June 13th, 2022



Lectures: GEOG 1202 (3)-001
In-person
Classroom: 4CM42

Instructor: Dan Applin

Office – 4CM37E
Cell: 204-963-4943
E-mail : daniel.m.applin@gmail.com
Office Hours:

- In-person: by appointment
- My Personal Zoom Meeting Room
<https://us06web.zoom.us/j/6779193982>

Lab Instructor: Dan Applin

Teaching Assistant: Kaelyn Middleton E-mail: kaemidds@gmail.com

Class:

Section	Day	Time	Room	Instructor
GEOG-1202-001	Mon, Tue, Wed, Thu	13:00 – 14:30	4CM42*	D. Applin

Labs:

Section	Day	Time	Room	Instructor
GEOG-1202L-070	Tue, Wed, Thu	15:00 – 16:30	4CM42*	D. Applin

*Labs will be delivered in-person until further notice.

Course Nexus: Use your WebAdvisor User ID and password
Login at: <https://nexus.uwinnipeg.ca>

Lab Nexus: Materials for all labs, lab readings, assignments, and lecture slides, are posted on a separate Nexus site.

** Everyone should have access to the “Lab for Intro Earth Science” lab Nexus, as well as the “Intro Earth Science” course Nexus. Please email the instructor if this is not the case.*

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

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

For assistance and/or questions:

- Instructor Office Hours
 - Virtual Office: <https://us06web.zoom.us/j/6779193982>
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How to Contact Dan:

Use your University of Winnipeg email address for course-related correspondence (name@webmail.uwinnipeg.ca). Do not use the Nexus email function. When contacting the instructor, please make sure you use a proper subject heading for the email (e.g. Introductory Earth Science 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.

Lectures:

- All the materials for this course will be posted on Nexus.
- New materials will be made available weekly (on Monday morning at the latest).
- Students are responsible for keeping up with weekly materials.
- Lectures and labs are complementary. It may be beneficial to review course materials before your weekly lab, however this is not necessarily required.

Labs:

- The lab in Introductory Earth Science is an integral component of the course (worth 40% of your final grade).
- Therefore, it is the responsibility of the student to attend all scheduled labs and to complete the assignments as required. **If you are registered in an in-person lab section, you are expected to attend in-person.**
- All information pertaining to the labs will be posted to the dedicated lab nexus site(s).
- Labs in this course will begin the week of **May 3rd** and will be conducted in-person. Please review all materials posted to the lab nexus prior to attending your lab.

- Completed lab assignments are to be submitted digitally (unless indicated otherwise) 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 (Tuesday 13:00 – 16:30), each lab assignment is due by 12:59 the following Tuesday.

NEXUS:

- Documents related to this course and the labs (e.g. course syllabus, project / assignment guidelines, quizzes, lecture slides, lecture capture or voice over videos, supplemental readings, and all other supplementary materials) will be made available to students via the course and lab Nexus sites.
- You must be registered in the course and in one of the lab sections to have access to these materials. To log into 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

**Please note: Communication with the instructor, lab instructors, or teaching assistant can be done during office hours, during live tutorial sessions, or via e-mail. when corresponding with the teaching team, please use your University of Winnipeg email account: name@webmail.uwinnipeg.ca.*

1. COURSE INFORMATION

1.1. Course Description

This course introduces students to geomorphology, the study of landforms and landscapes on the surface of the Earth. Processes of geologic (mountain building, volcanism, etc.) and geomorphic change (weathering, erosion, and deposition by water, ice, and wind) will be surveyed.

1.2. Course Objectives

This course is designed to provide students with a basic understanding of the geologic and geomorphic processes within a spatial and temporal context, and to give an appreciation of physical geography as the foundation for the environmental sciences, as well as its environmental and economic importance. This course serves a number of purposes: firstly, it introduces physical geography to students intending to major in geography; secondly, it is a compulsory course in the Geography, as well as Environmental Studies and Sciences programs, and; thirdly, it provides a partial science requirement for Arts students.

1.3. 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; additional required readings and/or materials for review may be posted on the nexus site for this course. Students are advised to complete each reading prior to reviewing associated materials posted to Nexus. Unless otherwise indicated, you are responsible for understanding all information covered in the course.

TOPIC	READINGS
INTRODUCTION: physical geography as the foundation for the environmental sciences; scale of study; systems; location and time.	Chapter 1
EARTH'S PHYSICAL STRUCTURE: Earth's internal structure and energy; Earth materials; plate tectonics; geological cycle; geological time scale.	Chapter 12
THE TECTONIC SYSTEM: crustal formation and deformation; earthquakes; volcanism.	Chapter 13
WEATHERING: physical and chemical processes; soil formation; landforms and landscapes of weathering.	Chapter 14
RIVER SYSTEMS: drainage basins; fluvial concepts and landforms; flooding.	Chapter 15
OCEANS, COASTAL SYSTEMS, AND WIND PROCESSES: coastal system processes; hydrologic cycle; wind processes.	Chapter 16
GLACIAL AND PERIGLACIAL LANDSCAPES: glaciers: types and processes; glacial landforms; periglacial processes; Pleistocene epoch; Arctic and Antarctic regions.	Chapter 17
SOILS: soil-forming processes; soil profiles, characteristics, and classification; human impacts	Chapter 18
ECOSYSTEM ESSENTIALS: trophic relationships, biotic communities, species interactions, limiting factors, disturbance and succession, biodiversity.	Chapter 19

1.4. Laboratories

Labs in this course will begin during the first week of class (**May 3rd**).

Students must be registered the following lab sections:

Section	Day	Time	Room	Instructor
GEOG-1202L-070	Tuesday	15:00 – 16:30	4CM42*	D. Applin

*in-person labs will be delivered until further notice.

Details concerning the laboratory component of this course will be provided by your lab Instructor. This person should be your first point of contact, they are responsible for delivering materials, as well as accepting and grading your assignment submissions.

2. IMPORTANT DATES

Lecture Begins	May 2 nd , 2022
Final date to withdraw for 100% refund	May 13 th , 2022
MIDTERM EXAM	May 19 th , 2022 (13:00-14:00)
Victoria Day - university closed	May 23 rd , 2022

Final date to withdraw without academic penalty	June 1 st , 2022
Lectures end	June 13 th , 2022
Exam period	June 14-15th , 2022

**Please refer to the 2021 - 2022 Course Calendar for additional dates and schedules.*

3. GRADING PROCEDURE

MID-TERM THEORY TEST	30%	Thursday, May 19th, 2022, at 13:00 Covering materials leading up to and including unit 4
LAB ASSIGNMENTS	40%	DUE DATES: prior to the start of the next lab; or as indicated by the Lab Instructor.
FINAL THEORY EXAM	30%	Please check: https://www.uwinnipeg.ca/exam-schedules for final exam schedule. Cumulative: covering all course materials
TOTAL	100%	

*Final grades will be assigned based accumulated scores from the above components.

* There are **6** lab assignments. Each assignment will contribute **6.67%** to the total of 40%. Due dates: as indicated by your lab instructor (see above). Late submissions will not be accepted for grading (except in circumstances where the lab instructor agrees that good reason has been provided) and as a consequence, a grade of “zero” will be assigned. Please send an email to your lab instructor (see emails above) if an issue arise that will prevent you from submitting your lab assignment on time.

Senate approved grades for courses include A+, A, A-, B+, B, 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. Final letter grades are based on accumulated numeric grades during the course. For this course, grade equivalents are as follows:

Percent	0-49.9	50-59.9	60-64.9	65-69.9	70-74.9	75-79.9	80-84.9	85-89.9	90-100
Letter Grade	F	D	C	C+	B	B+	A-	A	A+

The Final Theory Exam must be written as scheduled in the 2021-2022 Fall/Winter Timetable; 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 2021-2022 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

If the final exam is in-person, students are required to show their University of Winnipeg student identification. Take-home or remote exams will be administered or submitted via Nexus where responses should also be uploaded. The use of a simple calculator is allowed but no other electronic devices are permitted, unless otherwise indicated.

4. VOLUNTARY WITHDRAWAL

(Please refer to the 2021 - 2022 Calendar for Voluntary withdrawal procedures).

**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.

Please note the following deadline dates for voluntary withdrawal for courses:

- Wednesday, June 1st, 2022: FINAL DATE to withdraw without academic penalty from courses which begin in May 2022 and end in June 2022 of the 2022 Spring Term.

***Please contact the instructor before withdrawing from the course.

5. COURSE POLICIES

5.1. Late Work

Unless prior arrangements have been made, any quizzes, activities, and/or assignments that may be assigned and that are handed in late (after the specified time/date) will not be accepted and will be assigned a grade of zero. An alternative late penalty of -20% per day of the earned grade may be applied if indicated by your course or lab instructor.

5.2. Test/Exam Format, Identification and Equipment Policy

All exams and tests must be written as scheduled above and in the 2021 – 2022 Course Calendar; the **Final Theory Exam** must be written as scheduled in the 2021 –

2022 Final Exam Schedule. Alternate dates will not be considered except for exceptional circumstances. If you have a **Final Theory Exam** conflict (i.e., two final exams on the same date and time), or you are unable to attend because of medical, religious holiday celebration, or compassionate reasons, or if other circumstances beyond your control 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 the appropriate section of Regulation and Policies in the 2021 – 2022 Course Calendar link: (<http://www.uwinnipeg.ca/index/calendar-calendar>).

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams or during lectures/laboratories are encouraged to contact Accessibility Services (AS) at 204.786.9771 or <https://www.uwinnipeg.ca/accessibility-services/> to discuss appropriate options. All information about a student's disability or medical condition remains confidential.

5.3. 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/>
<https://www.grammarly.com/blog/email-etiquette-rules-to-know/>

5.4. Other

If you send me an email, please use my GMAIL e-mail address: daniel.m.applin@gmail.com with a relevant subject line (e.g. Question GEOG 1202) and I will do my best to reply promptly. Alternatively, you can contact me using the Nexus e-mail system, however I will generally reply more promptly to an e-mail sent to my University of Winnipeg e-mail address.

I will make every reasonable attempt to:

- i) Return assignments/tests/exams to students in a timely fashion, normally within 2 weeks; and
- ii) ensure that students do not have to write term tests or examinations on the date of a religious holiday. Alternate arrangements may be made when conflicts do arise. 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 in the 2021 - 2022 Undergraduate Academic Calendar.

6. 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/remote-learning-faq.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.
 4. Students are reminded that they have a responsibility to regularly check their uwinnipeg email addresses to ensure timely receipt of correspondence from the University and/or their course instructors.
 5. Your uwinnipeg email address will normally be used for course-related correspondence.
 6. Please note that withdrawing before the VW date does not necessarily result in a fee refund.
 7. The first day of class is **May 2nd**, 2022. Lecture ends June 13th, 2022. The Spring 2022 evaluation period runs from June 14th – 15nd, 2022. See <https://www.uwinnipeg.ca/academics/calendar/docs/dates.pdf> for all dates.
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7. ACADEMIC REGULATIONS AND POLICIES

It is your responsibility to be familiar with the information on Academic Regulations and Policies listed in the 2021 - 2022 University of Winnipeg Course Calendar www.uwinnipeg.ca/index/calendar-calendar. This section covers grading, transcripts, challenge for credit, academic standing, student discipline (academic and non-academic misconduct), appeals including grade appeals, general university policies and codes, and graduation.

7.2. Academic Conduct

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.

7.3 Academic Misconduct

Avoiding Academic and Non-academic Misconduct. Students are encouraged to familiarize themselves with the Academic Regulations and Policies found in the University Academic Calendar at: <https://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>. Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals), and 10 (Grade Appeals). Please note, in particular, the subsection of Student Discipline pertaining to plagiarism and other forms of cheating. 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](#) and <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-procedures.pdf>

- Non-Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-procedures.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/docs/copyright_policy_2017.pdf).

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. The University of Winnipeg has a library video tutorial entitled “Avoiding Plagiarism, which can be accessed at:

<https://www.youtube.com/watch?v=UvFdxRU9a8g>.

7.3.1. 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.

7.2.2. 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

7.2.3 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.

7.2.3 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 (e.g. *Respectful Working and Learning Environment Policy* <https://www.uwinnipeg.ca/respect/respect-policy.html>, *Acceptable Use of Information Technology Policy* <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/acceptable-use-of-information-technology-policy.pdf>) could be considered “non-academic” misconduct. More detailed information can be found here:

Non-Academic Misconduct Policy and Procedures:

<https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-procedures.pdf>

8. UNIVERSITY SERVICE INFORMATION

8.1. 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 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>.

8.2. 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/>

8.3. 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.

8.4. 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>

8.5. 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/>

The instructor retains the right to make changes to the above course structure and procedures as circumstances require.

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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 the class.

May 2, 2022 update: per class consensus, there will not be a lab exam and the lab component will be comprised of 6 assignments.