

Feb 6-15	3. <i>Earth's Energy Budget</i> albedo; atmospheric radiation; sensible and latent heat; solar variability	Chapter 3, pp. 58-69, 79-84 Chapter 4, pp. 85-108
February 27-March 7	4. <i>Climate Change Past, Present, and Future</i> climate forcings and feedbacks; climate models; paleoclimate; IPCC future scenarios	Chapter 3, pp. 70-78 Chapters 7, 8 IPCC (2021) Summary
March 12-21	5. <i>Climate Change Impacts</i> IPCC projections; changing weather, oceans, and impacts on society; adaptation strategies	Chapters 9,10 Online readings
March 26-28	6. <i>Climate Policies</i> mitigation strategies; geoengineering; the UNFCCC; national policies; carbon pricing	Chapter 6 Online readings
April 2-4	7. <i>The Sociology of Climate Change</i> social psychology; denialism and the climate change discourse; climate change myths	Online readings
April 9	8. <i>Moving Forward</i> environmental ethics; social justice; sustainability and development options	Chapter 11

Learning Resources

Required Text:

Burch, S.L. and S.E. Harris, 2021. *Understanding Climate Change: Science, Policy and Practice*. University of Toronto Press, ISBN: 978-1-4426-1445-1.

Supporting Text:

Dessler, A., 2016. *Introduction to Modern Climate Change*, 2nd Edition. Cambridge University Press. ISBN: 978-1-1074-8067-4.

Assessment Methods

We will have three term tests spaced out throughout the course to assess our module learning. Test #1 will be held in-class on Thursday, Feb 15th, will cover Modules 1-3 and will be worth 30% of your grade. Test #2 will be held in-class on Thursday, Mar 21st, will cover Modules 4 and 5 and will be worth 30% of your grade. 20% of your grade will be comprised of a take-home final examination to be completed between April 9-14 focused on Modules 6-8 utilizing information obtained from Modules 1-5. The take home final examination question and guidelines will be issued on April 9th @ 4:00pm, which is then due before 11:59pm on April 14th as a PDF via D2L Dropbox.

Term Project: Climate Change Reflections Journal

In addition to the term tests, you will assemble a 'climate change reflection journal' for the semester. Starting on January 16 and continuing ~biweekly until March 29th, put together an on-line journal with six entries that include a few thoughts on (a) something you learned in the current module, that you did not know before, (b) something you have a question about, based on this module's material, and (c) a photo or image of what climate change means to you, with a brief description or caption explaining how this represents climate change and how it relates to you. The journal will be worth 20% of your mark, based on participation, relevance/alignment with the course material, and evidence of critical thinking. [LO3, LO5, LO6] *Reflection Dates: Jan 12, Jan 26, Feb 9, March 1, March 15, March 29* This climate change reflections journal is due before 11:59pm on April 7th as a PDF via D2L Dropbox.

Grading (Weighting)

Term Test #1	30%
Term Test #2	30%
Take-home final examination	20%
Term project (reflection journal):	20%

Students are not required to pass all components of the course to pass the course as a whole. Late Take-home final examination policy: 15% deduction per day

Grading System

95 – 100	A+	78 – 82	B	60 – 65	C-
90 – 95	A	74 – 78	B-	55 – 60	D+
86 – 90	A-	70 – 74	C+	50 – 55	D
82 – 86	B+	65 – 70	C	0 – 50	F

GPA equivalence and qualitative interpretation of letter grades:

A+	4.00	Outstanding performance
A	4.00	Excellent performance
A-	3.70	Approaching excellent performance
B+	3.30	Exceeding good performance
B	3.00	Good performance
B-	2.70	Approaching good performance
C+	2.30	Exceeding satisfactory performance
C	2.00	Satisfactory performance
C-	1.70	Approaching satisfactory performance.
D+	1.30	Marginal pass. Insufficient preparation for subsequent courses in the same subject
D	1.00	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.
F	0.00	Failure. Did not meet course requirements.

Flexible Grade Option (CG Grade)

<https://www.ucalgary.ca/pubs/calendar/current/f-1-3.html>

Additional Course Information

Written work is expected to be in correct English, but evaluation will be based on your content, conciseness, logical presentation of ideas, understanding of course material, and critical thinking.

In the event that a student misses a test or any course work due to illness, supporting documentation, such as a medical note or a statutory declaration may be requested <https://www.ucalgary.ca/pubs/calendar/current/m-1.html>
Please refer to <https://www.ucalgary.ca/registrar/registration/appeals/student-faq> for frequently asked questions concerning the provision of a medical note/statutory declaration.

Supplementary Fees

Not applicable.

Referencing Standard

In written work presented in this class, the accepted method for referencing the work of others will be the Chicago Manual of Style: <https://www.chicagomanualofstyle.org/home.html>

Important Dates

The last day to drop this course and receive a tuition fee refund is **Thursday, January 18th, 2024**. The last day to withdraw from this course is **Tuesday, April 9th, 2024**. No classes February 18 – 24th, 2024.

For additional detailed course information posted by the instructor, visit the course Desire2Learn page online at <https://d2l.ucalgary.ca/d2l/home>.

Writing support

Please note writing support resources provided by the Student Success Centre <https://ucalgary.ca/ssc/resources/writing-support> and the library <https://library.ucalgary.ca/guides/writinghelp>

University of Calgary Academic Integrity Policy

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. The University Calendar includes a statement on the principles of conduct expected of all members of the university community (including students, faculty, administrators, any category of staff, practicum supervisors, and volunteers), whether on or off university property. This statement applies in all situations where members of the university community are acting in their university capacities. All members of the university community have a responsibility to familiarize themselves with the principles of conduct statement, which is available at: www.ucalgary.ca/pubs/calendar/current/k.html.

Plagiarism, Cheating, and Student Misconduct

The University of Calgary is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect.

Academic dishonesty is not an acceptable activity at the University of Calgary, and students are **strongly advised** to read the Student Misconduct section in the University Calendar at: www.ucalgary.ca/pubs/calendar/current/k-3.html. Often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are (1) presenting another student's work as your own, (2) presenting an author's work or ideas as your own without adequate citation, and (3) using work completed for another course. Such activities will not be tolerated in this course, and students suspected of academic misconduct will be dealt with according to the procedures outlined in the calendar at: <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure>

For students wishing to know more about what constitutes plagiarism and how to properly cite the work of others, the Department of Geography recommends that they attend Academic Integrity workshops offered through the Student Success Centre: <https://www.ucalgary.ca/student-services/student-success/learning/academic-integrity>

Instructor Intellectual Property

Information on Instructor Intellectual Property can be found at <https://www.ucalgary.ca/legal-services/university-policies-procedures/intellectual-property-policy>

Freedom of Information and Protection of Privacy

Freedom of Information and Protection of Privacy (FOIP) legislation in Alberta disallows the practice of having students retrieve assignments from a public place, such as outside an instructor's office, the department office, etc. Term assignments will be returned to students individually, during class or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they must provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

Posting of Grades and Picking-up of Assignments

Graded assignments will be submitted and returned electronically through the course D2L webpage. Grades and assignments will not be available at the Department of Geography's main office and assignments cannot be dropped off at the Department Office.

Academic Accommodations

It is the student's responsibility to request academic accommodations, according to the university policies and procedures listed in the University Calendar.

The student accommodation policy can be found at: <https://www.ucalgary.ca/pubs/calendar/current/b-6-1.html>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/university-policies-procedures/accommodation-students-disabilities-procedure>

Students needing an accommodation based on a protected ground other than disability should communicate this need, preferably in writing to their instructor or the Department Head (email: freeman@ucalgary.ca).

Online courses

Learning Technologies and Requirements

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology.

- A computer with a supported operating system, as well as the latest security and malware updates
- A current and updates web browser
- Webcam (built in or external)
- Microphone and speaker (built in or external) or headset with microphone
- Broadband internet connection
- Access to Excel spreadsheet or related software for calculations

Timed Assessments for Online and Blended Courses

- Students will be provided with a 24-hour window in which they can access and complete a timed online assessment,
- If an issue arises affecting a student's ability to complete an assessment (e.g., issues with technology, caregiving responsibilities, or distractions within a student's test-taking environment), an alternative time to complete the assessment can be arranged with the instructor.
- Accommodation requirements through Student Accessibility Services still apply. The time allocated for issues that arise during an assessment would be in addition to accommodation requirements. See Section **G (Examination and Tests)** for additional details.
- The course instructor is available to answer questions related to the course material (assignments, quizzes) each Wednesday from 2-4 pm or by appointment (via Zoom).

Guidelines for Zoom Sessions

Zoom is a video conferencing program that will allow us to meet at specific times for a "live" video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

To help ensure Zoom sessions are private, do not share Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published with the instructor's permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith and respect (as per the Code of Conduct). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment.

Please be mindful of how your behavior in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g. Student Non Academic Misconduct Policy). If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your Zoom sessions visit: <https://elearn.ucalgary.ca/guidelines-for-zoom/>.

If you are unable to attend a Zoom session, please contact your instructor to arrange an alternative activity for the missed session (e.g., to review a recorded session). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.).

The instructor may record online Zoom office hours to support student learning in this class – such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only and will not be shared or used for any other purpose.

Media Recording (if applicable)

Students are not required to be recorded for the lecture content, but the final assessment item involves class presentations, where you

will be asked to record yourself explaining some course material. Accommodations are possible if you are not comfortable with this, e.g., you can just present an annotated powerpoint presentation without video.

Course evaluations and student feedback

Student feedback will be sought at the end of the course through the standard University Student Ratings of Instruction (USRI) and Faculty course evaluation forms.

Accessibility

Students will need to see and hear the pre-recorded lectures to attain the full course learning material. Zoom will be used for the videos, not YuJa, so captioning will not be available, as the audio quality is too poor on YuJa (at least with the Instructor's setup).

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (<https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy>) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Act.

Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness, and academic success and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support, or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>).

Students requiring assistance are encouraged to email the **Student at Risk line** if they or others appear to need wellness assistance: sar@ucalgary.ca For more immediate response, please call: 403-210-9355 and select option #2.

Sexual Violence Policy

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. Please see the policy available at <https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>

Contact Information for Student and Faculty Representation

- Student Union VP Academic 403-220-3911, suvpaca@ucalgary.ca
- Students Union Representatives for the Faculty of Arts – 403-220-3913, arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca
- Student Ombuds Office information can be found at: www.ucalgary.ca/ombuds/

Emergency Evacuation/Assembly Points

Assembly points for emergencies have been identified across campus. Assembly points are designed to establish a location for information updates from the emergency responders to the evacuees; from the evacuated population to the emergency responders. For more information, see the University of Calgary's Emergency Management website: <https://www.ucalgary.ca/risk/emergency-management>

Campus Safewalk

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus, including the LRT station, parking lots, bus zones, and university residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your campus destination.