

# SOCIETAL ADAPTATION TO CLIMATE CHANGE WINTER 2023

## GEOG 307

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### CLASS SCHEDULE

Section	Location	Time	Instructor(s)
GEOG 307 001 [LEC]	AL 105	Wednesdays 8:30 a.m. - 11:20 a.m.	Johanna Wandel jwandel@uwaterloo.ca
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### INSTRUCTOR / TA INFORMATION

Johanna Wandel's office hours are Wednesdays, 11:30-1:00 in EV1-326 (in person).

The TA for this course is Shaieree Cottar (scottar@uwaterloo.ca). Shaieree works remotely, thus please contact her via email and communicate with her via Teams. Shaieree is available for consultations on the assignment, and able to help you work through your seminar topic.

### COURSE DESCRIPTION

#### *Calendar Description for GEOG 307*

Climate change is a pervasive factor affecting the future of society. Recognizing that dangerous climate change cannot be avoided through greenhouse gas emissions reductions alone, adaptation to climate change has emerged as a central component of global climate policy. An in depth understanding of the diverse impacts of climate change on communities, economic sectors and society will provide a foundation for examining adaptation strategies to build resilience to accelerated climate change. Examples will drawn from multiple sectors in both developed and developing world contexts, with an emphasis on solutions and the limits to adaptation.

Prereq: GEOG 207 or GEOG 208 or GEOG 308

### LEARNING OUTCOMES

#### **By the end of this course students should be able to:**

Understand the types of response options human societies have in light of present and future climate change

Be aware of the differential impacts and vulnerabilities introduced by climate change, and how these interact with development.

Critically examine the ways in which we communicate climate change

Articulate the way climate change-related impacts, adaptation and vulnerability affect various sectors and locations

Explain how we can plan for the future in an environment of uncertainty.

## TENTATIVE COURSE SCHEDULE

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Week 1 (Jan. 11)

Course Introduction: What do we mean by adaptation? What are we adapting to?

Week 2 (Jan. 18)

Protect, Accommodate, Retreat, Part 1 (Protect and Accommodate)

Week 3 (Jan 25)

Protect, Accommodate, Retreat, Part 2 (Retreat)

Week 4 (Feb. 1)

Communicating Climate Change, and term paper options

Week 5 (Feb. 7)

What Does Adaptation Look Like? Part 3: "Accommodate"

Week 6 (Feb. 15)

Vulnerability

Week 7 (Mar. 1)

Test

Week 8 (Mar. 8)

Adaptation and Development

Week 9 (Mar. 15)

Required group meetings; Lecture rescheduled to March 6 6:30-9:20 p.m. EV3-1408

Week 10 (Mar. 22)

Student Presentations #1

Week 11 (Mar. 29)

Student Presentations #2

Week 12 (Apr. 5)

Future Studies and Climate Change

## TEXTS / MATERIALS

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No materials required.

There is no required textbook; some weeks have required readings - these will be announced on Learn, and linked from the "Readings" tab under content. All readings are available via University of Waterloo subscriptions or are open access; you will not incur additional costs to access content for this course. You will, however, need to be on campus, signed in through the library, or on the Waterloo VPN for some services.

One of the assignment options requires access to NexisUni. This can be accessed through the library.

In the (hopefully unlikely) event that Covid requires us to move online, we will use MS Teams. An MS Team has been created for this course to facilitate this.

## STUDENT ASSESSMENT

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Component	Value
Major paper (individual), due Feb. 13th	20%
Group presentation (in class, March 22 or 29)	10% (subject to peer evaluation calibration)
Group report, due April 7	15% (subject to peer evaluation calibration)
Participation (throughout the term)	20%
Test (March 1)	15%
Final exam (during the exam period)	20%

Written assignments are due to the relevant dropbox on Learn by 11:59p.m. on the due date.

As you are aware, you have one self-declared absence per term available via Quest to provide you with a 48 hr extension on any component in one of your courses. If you choose to use your self-declared absence on this course, the following policies will apply:

SD absence declared for a period which includes a due date for a written component -> extension for 48 hrs. on that component. If the due date is beyond the 48 hour SD absence, it is unaffected. For example, your paper is due Feb. 13th. If you invoke the SD absence on the 12th or 13th, the due date moves to the 15th for you. If you invoke it on the 9th or 10th, the original date of Feb. 13th does not change.

SD absence declared for the Test (March 1) -> weight of the test transfers to the final exam

SD absence declared for your group presentation -> your group members present without you.

SD absence declared for the group report (April 7th) -> the group report is still due on April 7th.

## ASSIGNMENT SCREENING

Text matching software (Turnitin) will be used to screen assignments in this course. This is being done to verify that use of all material and sources in assignments is documented. In the first week of the term, details will be provided about the arrangements for the use of Turnitin and alternatives in this course. See Administrative Policy below for more information and links.

## ADMINISTRATIVE POLICY

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**Declaring an absence:** Regardless of the process used to declare an absence, instructors maintain agency over decisions regarding course component accommodations.

Self-declared absences (for flu-like illness, short-term 48 hour self declared absences) must be submitted through Quest.

Absences requiring documentation (e.g. Verification of Illness Form, bereavement, etc.) - send your documentation to env-vif@uwaterloo. Do not send documentation to your advisor, course instructor, teaching assistant, or lab coordinator. Submission to **env-vif@uwaterloo.ca** () will notify all of your instructors of your absence.

**Territorial Acknowledgement:** The University of Waterloo acknowledges that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our campuses through research, learning, teaching, and community building, and is centralized within the [Office of Indigenous Relations](https://uwaterloo.ca/indigenous) (<https://uwaterloo.ca/indigenous>)

**Intellectual Property:** For further information on IP related to teaching, please see [https://uwaterloo.ca/legal-and-immigration-services/sites/ca.legal-and-immigration-services/files/uploads/files/volume\\_1\\_issue\\_3\\_winter\\_2018.pdf](https://uwaterloo.ca/legal-and-immigration-services/sites/ca.legal-and-immigration-services/files/uploads/files/volume_1_issue_3_winter_2018.pdf) ([https://uwaterloo.ca/legal-and-immigration-services/sites/ca.legal-and-immigration-services/files/uploads/files/volume\\_1\\_issue\\_3\\_winter\\_2018.pdf](https://uwaterloo.ca/legal-and-immigration-services/sites/ca.legal-and-immigration-services/files/uploads/files/volume_1_issue_3_winter_2018.pdf)) and the Guidelines for Faculty, Staff and Students Entering Relationships with External Organizations Offering Access to Course Materials, <https://uwaterloo.ca/secretariat/faculty-staff-and-students-entering-relationships-external> (<https://uwaterloo.ca/secretariat/faculty-staff-and-students-entering-relationships-external>) . The following text is recommended:

Students should be aware that this course contains the intellectual property of their instructor, TA, and/or the University of Waterloo. Intellectual property includes items such as:

- Lecture content, spoken and written (and any audio/video recording thereof);
- Lecture handouts, presentations, and other materials prepared for the course (e.g., PowerPoint slides);
- Questions or solution sets from various types of assessments (e.g., assignments, quizzes, tests, final exams); and
- Work protected by copyright (e.g., any work authored by the instructor or TA or used by the instructor or TA with permission of the copyright owner).

Course materials and the intellectual property contained therein, are used to enhance a student's educational experience. However, sharing this intellectual property without the intellectual property owner's permission is a violation of intellectual property rights. For this reason, it is necessary to ask the instructor, TA and/or the University of Waterloo for permission before uploading and sharing the intellectual property of others online (e.g., to an online repository).

Permission from an instructor, TA or the University is also necessary before sharing the intellectual property of others from completed courses with students taking the same/similar courses in subsequent terms/years. In many cases, instructors might be happy to allow distribution of certain materials. However, doing so without expressed permission

is considered a violation of intellectual property rights.

Please alert the instructor if you become aware of intellectual property belonging to others (past or present) circulating, either through the student body or online. The intellectual property rights owner deserves to know (and may have already given their consent).

**Mental Health:** The University of Waterloo, the Faculty of Environment and our Departments/Schools consider students' well-being to be extremely important. We recognize that throughout the term students may face health challenges - physical and / or emotional. **Please note that help is available.** Mental health is a serious issue for everyone and can affect your ability to do your best work. Counselling Services <https://uwaterloo.ca/campus-wellness/> (<https://uwaterloo.ca/campus-wellness/>) is an inclusive, non-judgmental, and confidential space for anyone to seek support. They offer confidential counselling for a variety of areas including anxiety, stress management, depression, grief, substance use, sexuality, relationship issues, and much more.

All students are encouraged to download the WatSAFE app which is available free through the google and iOS app stores. The WatSAFE app provides on- and off-campus contacts for students in distress, including international students, and other information related to campus safety and security.

**Religious Observances:** Students need to inform the instructor at the beginning of term if special accommodation needs to be made for religious observances that are not otherwise accounted for in the scheduling of classes and assignments.

**Communications with Instructor and Teaching Assistants:** All communication with students must be through either the student's University of Waterloo email account or via LEARN. If a student emails the instructor or TA from a personal account they will be requested to resend the email using their personal University of Waterloo email account.

**Recording lecture:** Use of recording devices during lectures is only allowed with explicit permission of the instructor of the course. If allowed, video recordings may only include images of the instructor and not fellow classmates. Posting of videos or links to the video to any website, including but not limited to social media sites such as: facebook, twitter, etc., is strictly prohibited.

## UNIVERSITY POLICY

**Academic integrity:** In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. [Check [the Office of Academic Integrity](https://uwaterloo.ca/academic-integrity/) (<https://uwaterloo.ca/academic-integrity/>) for more information.]

**Grievance:** A student who believes that a decision affecting some aspect of their university life has been unfair or unreasonable may have grounds for initiating a grievance. Read [Policy 70, Student Petitions and Grievances, Section 4](https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70) (<https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70>) . When in doubt, please be certain to contact the department's administrative assistant who will provide further assistance.

**Discipline:** A student is expected to know what constitutes academic integrity to avoid committing an academic offence, and to take responsibility for their actions. [Check [the Office of Academic Integrity](https://uwaterloo.ca/academic-integrity/) (<https://uwaterloo.ca/academic-integrity/>) for more information.] A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate associate dean. For information on categories of offences and types of penalties, students should refer to [Policy 71, Student Discipline](https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71) (<https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71>) . For typical penalties, check [Guidelines for the Assessment of Penalties](https://uwaterloo.ca/secretariat/guidelines/guidelines-assessment-penalties) (<https://uwaterloo.ca/secretariat/guidelines/guidelines-assessment-penalties>) .

**Appeals:** A decision made or penalty imposed under [Policy 70, Student Petitions and Grievances](https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70) (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70) (other than a petition) or [Policy 71, Student Discipline](https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71) (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71) may be appealed if there is a ground. A student who believes they have a ground for an appeal should refer to [Policy 72, Student Appeals](https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-72) (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-72) .

**Note for students with disabilities:** [AccessAbility Services](https://uwaterloo.ca/disability-services/) (https://uwaterloo.ca/disability-services/) , located in Needles Hall, Room 1401, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with AccessAbility Services at the beginning of each academic term.

**Turnitin.com:** Text matching software (Turnitin®) may be used to screen assignments in this course. Turnitin® is used to verify that all materials and sources in assignments are documented. Students' submissions are stored on a U.S. server, therefore students must be given an alternative (e.g., scaffolded assignment or annotated bibliography), if they are concerned about their privacy and/or security. Students will be given due notice, in the first week of the term and/or at the time assignment details are provided, about arrangements and alternatives for the use of Turnitin in this course.

It is the responsibility of the student to notify the instructor if they, in the first week of term or at the time assignment details are provided, wish to submit alternate assignment.