

**INSPIRE 2CC3 – Multidisciplinary Inquiry into Climate Change
Summer 2020**

Course Coordinator: Dr. Zobia Jawed
Email: jawedz@mcmaster.ca
Virtual Office Hours: Friday, 10-11 AM (by appointment)

Course Description: This course will explore the subject of climate change as both a global and local issue from multiple disciplinary perspectives, including geological, ecological, historical, social, and political. This course will allow students to explore, through inquiry, the dynamic relationship between Earth's climate and both natural and anthropogenic processes that are taking place on the surface of the planet. Topics in this course include, but are not limited to, looking at climate change through historical and geological lenses and the impact that climate change is having on human populations using local, national and international examples.

Course Objectives: By the end of this course:

1. You will understand about climate change from multiple disciplinary perspectives, including geological, ecological, historical, social, and political.
2. You will understand about driving forces behind climate change and government policies to reduce greenhouse gas emissions
3. You will learn and understand about how climate change can impact you, your surrounding and our future

Course Schedule:

Lectures for INSPIRE 2CC3 will be prerecorded by the instructor and posted on Avenue. This means you can go to them whenever and as many times as you wish. Lectures will be released on weekly basis starting Monday, June 22, 2020.

Introductory Class:

Dr. Zobia Jawed will post a Zoom link for an introductory short class to provide an overview of the course so you can virtually meet her. Anyone who cannot join will have access to the recording. Zoom link and date/time will be posted on Monday, June 22nd. Tentative date will be Friday, June 26 at 10 AM during the virtual office hours.

Required Texts:

Instructor will provide all required texts and materials on Avenue.

Assessment and Course Deliverables:

Course results determined on a percentage scale will be converted to an official letter grade, as indicated in the Undergraduate Calendar. The results of all courses attempted will appear on your transcript as letter grades.

1. Weekly Discussion Board – 30% (Individual)
2. Assignment / Case Studies (3) – 30% (Individual)
3. Term Project – 40 % (Group or Individual)

Term Project: You can complete this project with a group of three students (Total number of students per group= 3). Further instructions will be provided to you during the introductory class and via Avenue to Learn announcements. In cases, you cannot work in groups due to your schedule, you can complete this project individually with the understanding that everyone will be graded the same way regardless if you are working in a group or individually.

Course Communication:

1. Class Time & Student Hours: Virtual office hours will be on Fridays from 10 to 11 AM (by appointment) You can e-mail the instructor at jawedz@mcmaster.ca to ask for other times for a virtual meeting and come up with a mutual time to virtually meet.

2. Avenue to Learn: Announcements, lecture content, and grades will be posted to Avenue to Learn. This will be our primary method of contact, please check our course page regularly to ensure you don't miss out on important information or announcements.

3. Email: Feel free to email the instructor at jawedz@mcmaster.ca if you have any questions or concerns. Please ensure that all communication for this course is through your mcmaster.ca email. I will do my best to respond within 48 hours, however, please remember we are humans; sometimes we might be a little late or the email may get lost. If you don't hear back from us within 3 working days, feel free to re-send your email with a friendly reminder. Do not forget to add a **subject line:** INSPIRE 2CC3 Question

Lecture Content:

Lecture	Topic	Sub-topics
Lecture 1	The Climate System	The Atmosphere The World Ocean Ocean-Atmosphere Interactions Carbon Cycle and how it influences climate
Lecture 2	Climate Change and its Drivers	Learning from the climate of the distant past The Concept of Radiation-balance, a scientific framework for thinking about climate change Climate Change or Climate Emergency?
Lecture 3	Consequences of Climate Change	The Climate of recent past and impacts on Human History Observing the Change
Lecture 4	Climate Politics	Carbon Tax Cap and Trade 360 degrees around the globe

Lecture 5	Climate Change and You	Your Health and Family Future of Coastal property Investments in the Future Food Security
Lecture 6	Energy, Economics and Climate Change	Energy and economic growth Energy, economy, environment, and sustainability Wicked Problem
Lecture 7	Greenhouse Gases	Distinguishing Features Recent Trends Macro view of contributing factors
Lecture 8	Global Warming	Earth's temperature history Feedback Mechanisms Changing Sea Levels Abrupt Climate Change
Lecture 9	A Roadmap for Reducing Greenhouse Gas Emissions	Putting us on Track to Low Carbon Future Energy Policy How to Prioritize Policy for Emission Reduction?
Lecture 10	Top Policies for Greenhouse Gas Abatement	The Power Sector Transportation Sector The Building Sector The Industry Sector Cross-Sector Policies
Lecture 11	Mitigation, Adaptation and Geoengineering	Energy Efficiency and Conservation Decarbonization of Transportation Carbon Capture and Sequestration Adaptation Geoengineering (Solar radiation, management, carbon dioxide removal, ramifications and risk)
Lecture 12	The Future	Climate models and the future Climate change risk in unknowable future (pandemics, disasters) Energy and the future

Course Policy Statements

1. Online Course Behaviour

McMaster is committed to an inclusive and respectful community. These principles and expectations extend to online activities including electronic chat groups, video calls and other learning platforms. If you are concerned about your virtual classroom experiences, the [Equity and Inclusion Office \(EIO\)](#) is available to advise and assist students who may be experiencing any equity, accessibility, inclusion, harassment, discrimination or sexual violence concerns. You can reach the EIO at equity@mcmaster.ca. Thank you for joining us in ensuring that our McMaster online communities are spaces where no one feels excluded and everyone is able to enjoy learning together."

2. Academic Accommodation of Students with Disabilities:

Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. SAS can be contacted by phone 905-525-9140 ext. 28652 or email sas@mcmaster.ca. For further information, consult McMaster University's Academic Accommodation of Students with Disabilities policy

(<https://secretariat.mcmaster.ca/app/uploads/2019/02/Academic-Accommodation-for-Religious-Indigenous-and-Spiritual-Observances-Policy-on.pdf>).

I also encourage you to talk to me if you require any accommodation, I am happy to via email or via virtual office hours.

3. Academic Accommodation for Religious, Indigenous, or Spiritual Observances (RISO):

It is important that any students requiring academic accommodation based on religion, indigenous, and spiritual observances know that these requests will be respected in the classroom. Students requiring academic accommodation based on religious, indigenous, or spiritual observances should follow the procedures set out in the RISO policy (<https://secretariat.mcmaster.ca/app/uploads/2019/02/Academic-Accommodation-for-Religious-Indigenous-and-Spiritual-Observances-Policy-on.pdf>). Students requiring a RISO accommodation should submit their request to their Faculty Office normally within 10 working days of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and/or tests.

4. Assignment Deadlines and Missed/Late Work

Assignment Deadlines & Missed/Late Work: Students are expected to hand in all assignments on the specified due dates. Late submissions will be subject to a penalty of 10% per day (including weekend days). Assignments submitted after the beginning of class on the due date will be counted as one day late. No assignments will be accepted after the last day of classes. Given that some course assignments require electronic submission, you should familiarize yourself with the Avenue to Learn Assignment in advance of the deadlines, and ask for assistance as necessary. Problems with electronic submission WILL NOT be accepted as an excuse for lateness

5. MSAF Statement McMaster Student Absence Form (MSAF):

If you are absent from the university for a minor medical reason, lasting fewer than 3 days, you may report your absence, once per term, without documentation, using the McMaster Student Absence Form. Absences for a longer duration or for other reasons must be reported to your Faculty/Program office, with documentation, and relief from term work may not necessarily be granted.

When using the MSAF, report your absence to interession@mcmaster.ca . You must then contact your instructor(s) immediately (normally within 2 working days) by email at jawedz@mcmaster.ca to learn what relief may be granted for the work you have missed, and relevant details such as revised deadlines, or time and location of a make-up evaluation. Please note that the MSAF may not be used for term work worth 25% or more, nor can it be used for the final examination. Please note: students who use the MSAF, but who do not contact the instructor within the 2 working days' period, may not be granted any relief.

6. McMaster Policy on Academic Integrity

You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity. Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences—e.g., the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty, please refer to the Academic Integrity Policy:

(<https://secretariat.mcmaster.ca/app/uploads/Academic-Integrity-Policy-1-1.pdf>).

The following illustrates only three forms of academic dishonesty: 1) Plagiarism—e.g., the submission of work that is not one’s own or for which other credit has been obtained. 2) Improper collaboration in group work. 3) Copying or using unauthorized aids in tests and examinations.

7. Sharing and Posting Course Material

Students who have access to authorized recorded lectures in a course may use these recordings only for personal or group study and *should not reproduce, share or upload the recording to any publicly accessible web environment*. Similarly, notes, slides, evaluations and tests are for personal use and should not be shared with others outside of a course.

8. Acknowledgement of Course Policies

Your registration and continuous participation (e.g. on A2L, in the classroom, etc.) to the various learning activities of INSPIRE 2CC3 will be considered to be an implicit acknowledgement of the course policies outlined above, or of any other that may be announced during lecture and/or on A2L. It is your responsibility to read this course outline, to familiarize yourself with the course policies and to act accordingly. Lack of awareness of the course policies cannot be invoked at any point during this course for failure to meet them. It is your responsibility to ask for clarification on any policies that you do not understand. The instructor reserves the right to modify elements of the course and will notify students accordingly (in class and post any changes to the course A2L).

9. Extreme Circumstances

The lecture schedule is only a guideline and may be modified during the course of the class. The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes.