

GEOG 5005 / INAF 5701 (Fall 2019)
GLOBAL ENVIRONMENTAL CHANGE: HUMAN IMPLICATIONS
Course outline as of 23 Aug 2019
Updates, as required, will be posted on cuLearn

INSTRUCTOR:

Mike Brklacich
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COURSE MEETINGS & VENUE:

Tue, 6:05 to 8:55pm, A220 Loeb

Note: The 1st meeting will occur on Tue 10 Sep and the last will be on Tue 3 Dec. We will not meet on the Tue during Fall Break.

This is an evening course. Please plan for your safety at all times & especially after the end of class. More info on safety is available at Carleton's Department of University Safety (<https://carleton.ca/safety/>)

INSTRUCTOR'S OFFICE HRS:

Each Tue, 4:30 to 5:45pm & most likely in B457 Loeb.
Each Tue, after class, in Loeb A220
At other times, by appointment or chance & most likely in 330 Paterson.

FRAMING THE COURSE: Climate change research has grown from its roots in the environmental sciences and there have been at least three substantial shifts over the past few decades. First, climate change research is now firmly planted at the intersection of environmental and social sciences. The quest to better understand complex climate systems and human interference with these systems continues and contemporary questions pertaining to the vulnerability and security of communities and places have prompted scientists, resource managers and policy analysts to explore, develop and apply a range of interdisciplinary approaches. Another major trend has been the repositioning of climate change within public policy. Climate change is no longer cast solely as an environmental concern. It is now framed as complex sets of issues that are directly linked to broader issues of social and economic transformations in the developing and industrialized world. And the third trend pertains to the move towards climate solutions. It has been 29 years since the Intergovernmental Panel on Climate Change (IPCC) issued its first report that focused on identifying climate-related concerns and there is now greater attention being placed on "climate solutions" that range from efforts to curtail human interference of climate systems through to opportunities for adaptation to uncertain futures.

LEARNING OUTCOMES: By the end of this course, you will have an enhanced understanding and stronger capacity to address:

- Limits to our current understanding of human activities & GEC relationships.
- Barriers that must be overcome before we can improve our understanding of these relationships.
- Conditions that favour the development and implementation of climate solutions.

COURSE FORMAT, TEACHING APPROACH, TOPICS AND READINGS: Weeks 1 through 4 will set the context for the remainder of the course by reviewing how human activities have impacted earth system processes and discussing important issues concerning the integration of social science perspectives within a global

environmental change framework¹. Once this foundation is in place, weeks 5 to 11 will be used to explore a wide range of topics relating to human dimensions of GEC (pls see Seminar Topics at the end of this outline). The course will conclude with a discussion on research thrusts designed to advance our understanding human dimensions of GEC.

The course will employ a variety of teaching approaches ranging from mini lectures, workshops, seminars, panel discussions and Q&A periods. In all cases, the emphasis will be on critical engagement with course readings, discussion and interactions within the class. Each seminar topic will be prefaced by a brief introduction to the topic and recommended readings.

There is no course textbook. A reading list will be posted on CuLearn & you will be able to download readings from Carleton's e-journal collection or from publicly available websites. A few useful websites relating to GEC & human dimensions of GEC follow:

Environment and Climate Change Canada: www.canada.ca/en/environment-climate-change.html

Environmental Change and Security Project, Woodrow Wilson International Center for Scholars
www.wilsoncenter.org/ecsp

Future Earth: www.futureearth.org

Intergovernmental Panel on Climatic Change (IPCC) www.ipcc.ch

NRCan: Climatic Change: www.nrcan.gc.ca/environment/10760

United Nations Framework Convention for Climate Change (UNFCCC): unfccc.int

COURSE COMPONENTS, EVALUATION & COURSE DEADLINES: Each student will be evaluated on the following 4 course components. All written assignments should be prepared using a 12-point font and be double-spaced. Due date extensions without penalty will be granted only when circumstances beyond the student's control result in the need for extra time. The instructor will consider a request only if it is verified by a 3rd party and received within 5 days of the specified due date. Otherwise a penalty of one grade point per day will assessed to assignments submitted after the specified due date.

All course components should be submitted to the course instructor by email. Pls use the following file naming convention for all course components: ***Lastname_Coursecomponent_SubmissionDate.filetype***. For example, if my 1st Briefing Note was based on a topic covered during the 2nd week of term, it would have the following filename: ***Brklacich_BN1_24Sep19.docx***

Briefing Notes (BN) (2 x 15% = 30%): Two BNs of about 1000 to 1200 words on 2 seminar topics other than the seminar you will lead are required. **At least 1 BN must be submitted by the Tues during Fall Break.** BNs typically provide brief summaries and take a specific stance. More info on BNs to follow. The BN can focus on selected aspects of the seminar or the entire seminar. In addition, BNs can be based on events that are related to the course, provided you seek the instructor's approval in advance of the event. BNs are due one week after the seminar or event.

Seminar Presentation (SP) (20%): Seminars will be led by 2 to 3 students (depending on total enrolment). A list of potential topics is appended to the end of this draft outline. Topic selection will occur during the 2nd meeting. Student-led seminars are scheduled to commence in week 4 or 5 and continue through to second last meeting. A group mark will be assigned for this component of the course. Should you wish to use readings other than the ones recommended by the instructor, please ensure the class is advised of these changes at least one week in advance of your seminar. Also, please provide the instructor with seminar materials (ppt

¹ This course does not require a thorough knowledge of climate science. Earth system science fundamentals will be reviewed during the 1st class and then we will explore climate change through multiple social sciences lenses over the remainder of the term.

slide kits, handouts, etc) no later than the Sunday before your seminar date and these will be made available to the class via the course website.

Course Contribution (20%): This will be determined by the instructor and reflect your overall contribution to the course. Quality of contributions will be factored into this assessment.

Capstone Activity (30%): Students are required to complete 1 of 2 capstone activities (a final exam or a term paper) and are *to inform the instructor by email of their choice by 1 Oct 2019*. Should you elect the term paper option, please note that a proposal is due no later than 8 Oct 2018. If a ***proposal for the Term Paper is not submitted by 8 Oct 2018, then you will have elected the Final Exam option.***

Final Exam Option: A take-home format will be employed & the exam will occur after the last day of classes & prior to the end of the exam period (i.e. between 7 & 21 Dec 2019). There will be one question & you will be able to refer to course and other materials during the exam. The response to the question will require considerable interpretation as well as the integration and synthesis of material presented throughout the course. Half of the examination mark will be based upon the thoroughness of your response and the other half will be based upon the integration and synthesis of course materials used to address the question. You will most likely¹ have 36 hours to prepare a response of no more than 2,500 words. More information will be provided during the last half of the course.

Term Paper Option (Proposal: 5%, Final Paper 25%): The term paper of no more than 4,500 words is to **review and appraise** a topic related to human dimensions of GEC. The topic must be substantially different from your Briefing Notes and your Seminar Presentation. Potential topics might include:

- a specific type of GEC and region or sector (e.g. Comparison of Climatic Change Impacts on Coastal Communities in Developed & Developing Nations)
- a thematic area relating GEC-human dimensions research (e.g. Addressing Uncertainty in GEC Accords),
- issues relating to research frameworks and methods for addressing GEC – human dimension question (e.g. Application of GEC Mitigation Models),
- a review and critique of a GEC position paper, policy or program (e.g. Canadian Premiers' declaration in July 2015, Vatican's 2015 Encyclical "On Care for our Common Home, and many others)
- another approved topic.

A 1-page e-version of your **proposal is due no later than 8 Oct 2019** and this will be followed-up with a meeting with the instructor to discuss the proposal. In accordance with University regulations, the formal due date for your term paper will be the last day of classes (i.e. 6 Dec 2019). Late penalties however will not be assessed prior to the due date for the final take-home exam.

LATE SUBMISSIONS: When factors beyond your control prevent an on-time submission and these factors are verified by a professional third-party within 7 days of the original due date, no late penalties will be applied. In all other cases, a late penalty of one grade point per 2-days after the submission will be applied unless (e.g. for a BN due on the 1st Tue in the month & received on the 1st Fri of the month, a grade of A- would be reduced to B+).

EMAIL COMMUNICATIONS: Carleton email addresses will be used for all email correspondence.

INSTRUCTIONAL & CONDUCT OFFENCES: Instructional offences include among other activities cheating, contravening examination regulations, plagiarism, submitting similar work in 2 or more courses without prior

¹ Logistics to be confirmed once students have declared they will write the final exam. The Instructor will **attempt** to arrange for a timeslot that takes into account scheduled exams in other courses, off-campus work commitments and so on.

permission, and disrupting classes. Conduct offences apply in areas of discrimination and sexual harassment. Further information about regarding the definition and regulation of these offences is presented in the Graduate Calendar.

The University Senate defines plagiarism as “*presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one’s own.*” This can include:

- reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source;
- submitting a take-home examination, essay, laboratory report or other assignment written, in whole or in part, by someone else;
- using ideas or direct, verbatim quotations, or paraphrased material, concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another’s data or research findings;
- Failing to acknowledge sources through the use of proper citations when using another’s works and/or failing to use quotation marks;
- handing in "substantially the same piece of work for academic credit more than once without prior written permission of the course instructor in which the submission occurs."

Plagiarism is a serious offence that cannot be resolved directly by the course instructor. The Associate Dean of the Faculty conducts a rigorous investigation, including an interview with the student, when an instructor suspects a piece of work has been plagiarized. Penalties are not trivial. They can include a final grade of "F" for the course.

Carleton’s Academic Integrity Policy is available at:

carleton.ca/senate/wp-content/uploads/Academic-Integrity-Policy1.pdf

ACADEMIC ACCOMMODATIONS

Please visit the Equity Services website at <http://www.carleton.ca/equity/> to view the policies and to obtain more detailed information on academic accommodation. Also, please advise the Instructor of the need for accommodation during the first two weeks of term or as soon as possible after the need is known to exist.

Academic Accommodations for Students with Disabilities: The **Paul Menton Centre (PMC)** for Students with Disabilities provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your **Letter of Accommodation** at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (*if applicable*). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website (carleton.ca/pmc/) for additional information.

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SEMINAR TOPICS & SCHEDULE - UPDATED 23 AUG 2019

SEMINAR TOPICS

FOUNDATIONS TOPICS (3 Seminars)	BRIDGING TOPICS (At least 2 Seminars)	SECTOR VIEWS (At least 2 Seminars)	LOOKING AHEAD (At least 2 Seminars)
Anthropocene Now	CC & Equity	CC and Human Health	CC & Sustainable Development
Integrated CC Science	National Security & Conflict	CC & Food Security	CC & Migration
Human & Environmental Security Concepts	You Are What You Speak: CC Discourses	CC & Water Security	CC & Africa
	Gender & CC	Urban Perspectives on CC	

SEMINAR SCHEDULE

11 Sep to 2 Oct & 3 Dec: MBrk will lead the entire 3-hr class.

9 Oct to 27 Nov: Class will be divided into 2 Groups (approx.14 students per group), with GROUP 1 meeting at 6-7pm & GROUP2 meeting at 8-9pm. The entire class will meet from 7-8pm. On 17 Sept, students will select to participate in either Group 1 or 2 as well as seminar topics that will occur between 9 Oct & 27 Nov. Please note the same topic could be discussed in the 6-7pm & 8-9pm Groups.

Date	6-9 PM		
10 Sep	Course Introduction & Overview (MBrk)		
	Anthropocene Now: Humans as GEC Agents (MBrk)		
17 Sep	Anthropocene Now: continued (MBrk)		
	Student Seminar Selection (MBrk), Discussions on Leading Seminars & Briefing Notes (MBrk)		
24 Sep	Integrated Climatic Change (CC) Science (MBrk)		
1 Oct	Human & Environmental Security Concepts (MBrk)		
GROUPS, SEMINAR TOPICS & PRESENTERS TO BE SELECTED ON 17 SEPT			
	6-7 PM (GROUP 1)	7-8PM (GROUP 1 & 2)	8-9pm (GROUP 2)
8 Oct		Panel 1	
15 Oct		Panel 2	
29 Oct		Mid-Course Review (MBrk)	
5 Nov		IPCC Overview (MBrk)	
12 Nov		Panel 3	
19 Nov		Climate Solutions (MBrk)	
26 Nov	TBA		
	6-9PM		
3 Dec	CC Challenges & Opportunities Over the Next Decade (MBrk), Exam Preparation (MBrk)		