

ORIGINAL COURSE IMPLEMENTATION DATE: REVISED COURSE IMPLEMENTATION DATE: COURSE TO BE REVIEWED: (six years after UEC approval) Course outline form version: 09/15/14 September 1993 September 2017 January 2023

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 111		Number of Credits: 3 Course credit policy (105)					
Course Full Title: Environmental Issues and	d Strategi	es					
Course Short Title (if title exceeds 30 charac	:ters): Env	viron. Issues	& Stra	ategies			
Faculty: Faculty of Social Sciences De			Department (or program if no department): Geography and the Environment				
Calendar Description:							
Contemporary environmental challenges in a a local environmental research project and ic out-of-class field trip scheduling information.	dentify stra	ategies for a	daptat	ion. Pleas	e refer to the Departmen	nt of Geography website for	
Note: Field trips outside of class time may be		. Flease lele		epartment	website for heid trip sch		
Prerequisites (or NONE):	None.						
Corequisites (if applicable, or NONE):							
Pre/corequisites (if applicable, or NONE):							
Equivalent Courses (cannot be taken for add	ditional cre	edit)		Transfer Credit			
Former course code/number:				Transfer	Transfer credit already exists: 🛛 Yes 🛛 No		
Cross-listed with:				Transfer credit requested (OReg to submit to BCCAT):			
Equivalent course(s): Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.			☐ Yes ☑ No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: ☐ Yes ☐ No				
				To find out how this course transfers, see <u>bctransferguide.ca</u> .			
Total Hours: 45				Special	Topics		
Typical structure of instructional hours:			Will the course be offered with different topics?				
Lecture hours	19]	🗌 Yes 🛛 No				
Seminars/tutorials/workshops		21		If yes, different lettered courses may be taken for credit:			
Laboratory hours			\square No \square Yes, repeat(s) \square Yes, no limit				
Field experience hours		5	_				
Experiential (practicum, internship, etc.)		-	Note: The specific topic will be recorded when offered.				
Online learning activities Other contact hours:				Maximu	m enrolment (for inform	nation only): 36	
Other contact hours.	Tota	45		Expecte	d frequency of course	offerings (every semester,	
L	TOLA	43]		, every other year, etc.):		
Department / Program Head or Director: S	Steve Mar	sh			Date approved:	March 24, 2016	
Faculty Council approval				Date approved:	November 2016		
Campus-Wide Consultation (CWC)				Date of posting:	December 9, 2016		
Dean/Associate VP: Jacqueline Nolte				Date approved:	November 2016		
Undergraduate Education Committee (UEC) approval				Date of meeting:	January 27, 2017		

GEOG 111

Learning Outcomes

Upon successful completion of this course, students will be able to:

- Discuss relationships between global environmental change and population, urbanization, and agriculture;
- Provide written comparison of western scientific approaches to traditional ecological knowledge accumulation;
- Identify the relative utility and effectiveness of different scientific and social scientific data collection techniques in developing an environmental research project;
- Reflect on the ethical issues associated with the collection, analysis, and utilization of data, including Traditional Ecological Knowledge.
- Integrate field observations and data collection into a group project and individual reflection on local environmental change.
- Utilize both social science and natural science approaches in written, oral, and visual explanation of environmental problems.
- Work collaboratively to use scientific analysis and observations of human use patterns in order to identify and advocate strategies for improving environmental sustainability at a local scale.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion) Problem-based learning, lectures, in-class seminar exercises and fieldwork, student presentations.

Grading system: Letter Grades: 🛛 Credit/No Credit: 🗌 Labs to be scheduled independent of lecture hours: Yes 🗌 No 🗌

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)								
	Author (surname, initials) Title (article, book, journal, etc.)		Current ed.	Publisher	Year			
1.	Molles, M., and B. Borrell	Environment: Science, Issues, Solutions	\boxtimes	WH Freeman and Co.	2016			
2.	Govt of BC	BC Food and Agriculture Climate Action Adaptation, Risk, and Opportunity Assessment Series		Queen's Printer	2012			
3.	Turner, N. and H. Clifton	'It's so different today': Climate change and Indigenous lifeways in British Columbia, Canada. <i>Global Environmental Change</i> 19 (2).		Journal	2009			
4.	Nature Magazine Editorial Board	The Rise of the Citizen Scientist. Nature August 18		Journal	2015			

Typical Evaluation Methods and Weighting

Quizzes/tests:	20%	Seminar Discussion and Exercises: 10%	Reflective Essay	10%
Ind. Essay:	30%	Group Project: 30%	Total:	100%

Details (if necessary):

Reflective Essay 10% Seminar Discussion and Exercises 10% Citizen Science Group Project on Climate Challenge Adaptation 30% Individual Essay: neighbourhood level climate adaptation assessment 30% Quizzes (5-6): 20%

Typical Course Content and Topics

- 1. Introduction to course, key concepts: climate change, vulnerability, risk, and adaptation
- 2. The science of climate change; the hydrological cycle; invasive species
- 3. Bioregionalism; social connectivity and capacity for change
- 4. BC population histories and suburban environmental change
- 5. Science and uncertainty; risk analysis; field techniques and ethics in data collection
- 6. Mapping change: GIS and citizen science activism; mapping lab
- 7. Water forecasting and pollution; field techniques
- 8. Sustainable development; field techniques
- 9. Food security; thesis statement development
- 10. Food production and farm-level adaptation to climate changes
- 11. Traditional ecological knowledge and climate adaptability
- 12. Urbanization, infrastructure, and climate preparedness
- 13. Greening the city from the inside out
- 14. Group presentations; summary of course themes and ideas