ORIGINAL COURSE IMPLEMENTATION DATE: September 2008
REVISED COURSE IMPLEMENTATION DATE: September 2024
COURSE TO BE REVIEWED (six years after UEC approval)**:** March 2030
Course outline form version: 28/10/2022

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: GEOG 105	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Natural Hazards and Hollywood **Course Short Title:** Natural Hazards & Hollywood	
Faculty: Faculty of Science	**Department:** Planning, Geography and Environmental Studies

Calendar Description:

Introductory science of natural hazards brings a critical understanding of climate change-related disasters from extreme heat to cold snaps, from earthquakes to volcanic eruptions, and from pandemics to deep impact, while the emergency preparedness and natural disaster management in films provide the lessons to inspire communities to prepare for the next natural disaster.

Note: Field trips outside of class time may be required. Please refer to the department website for field trip scheduling information.

Prerequisites (or NONE):	None.
Corequisites (if applicable, or NONE):	
Pre/corequisites (if applicable, or NONE):	

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar	20
Tutorials/workshops	20
Experiential (field trip)	5
Total hours	**45**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**
(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**
(See policy 207 for more information.)

Grading System: **Letter grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Every semester**

Maximum enrolment (for information only)**: 36**

Prior Learning Assessment and Recognition (PLAR)

PLAR is available for this course.

Transfer Credit *(See **bctransferguide.ca**.)*

Transfer credit already exists: **Yes**

Submit outline for (re)articulation: **No**
(If yes, fill in transfer credit form.)

Department approval	**Date of meeting:**	September 2023
Faculty Council approval	**Date of meeting:**	February 2, 2024
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	March 1, 2024

Learning Outcomes *(These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)*

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

1. Explain the conceptual and methodological frameworks for the scientific examination and the Indigenous perspectives of understanding natural hazards.
2. Articulate the human dimensions such as gender equality and ethical issues related to natural hazards including perception of risk, preparedness for events, reduction of risk, and the management of recovery.
3. Compare and contrast real-world natural disasters as case studies with those depicted in film and television to understand how the portrayal of events on film and television can influence public understanding, public preparedness, and associated policy decisions.
4. Demonstrate competence in numeric, graphic, visual, and oral communication of natural hazard concepts using various scientific methods.
5. Apply the concepts of risk, vulnerability, and preparedness in the assessment of a landscape for the purpose of land use planning related to their personal situations.

Recommended Evaluation Methods and Weighting *(Evaluation should align to learning outcomes.)*

Final exam:	20%	Assignments:	40%	Quizzes/tests:	0%
Project:	20%		%		%

Details:

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

Typical Instructional Methods *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Lectures, seminars, assigned readings, discussion groups, and A/V presentations.

Texts and Resource Materials *(Include online resources and Indigenous knowledge sources. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

	Type	Author or description	Title and publication/access details	Year
1.	Textbook	Keller, E.A., D.E. DeVecchio, and J.J. Clague	Natural Hazards. Earth's Processes as Hazards, Disasters, and Catastrophes. Third Canadian Edition.	2015
2.	Textbook	Hyndman, D. and D. Hyndman	Natural Hazards and Disasters, 5th Edition	2017
3.	Article	World Bank	Gender dynamics of disaster risk and resilience	2021
4.	Article	Mosurka, Ginsberg, and Ford	Disasters and Indigenous peoples: A critical discourse analysis of the expert news media	2022
5.	Article	Reyes, K. Ayo, Maria Baluyan, Alan Balaguer	Indigenous Knowledge in Disaster Risk Reduction	2020

Required Additional Supplies and Materials *(Software, hardware, tools, specialized clothing, etc.)*

None

Course Content and Topics

Example 1:

1. Introduction to the study of natural hazards.
2. Concepts of risk and vulnerability.
3. Response and adjustment to natural hazards
4. Basics of earthquakes.
5. Basics of volcanic hazards.
6. introduction to biological hazards
7. Basics of floods
8. Basics of severe weather hazards: thunderstorms
9. Overview of hazards: lightning, hail, microbursts, tornadoes, flooding rains, snow, dust storms, drought, heat waves, cold spells, and freezing rain

Example 2:

1. Climate-related natural hazards
2. Weather-related natural hazards
3. Tectonic-related natural hazards
4. Geologic-solar influenced natural hazards
5. Biological hazards and extinction events
6. Presentations and wrap-up