CAPILANO UNIVERSITY

COURSE OUTLINE			
TERM: Fall 2022		**COURSE NO:** GEOG 435	
INSTRUCTOR:		**COURSE TITLE:** Energy, Communities and Environmental Change	
OFFICE: LOCAL: **E-MAIL:** @capilanou.ca		**SECTION NO(S):**	**CREDITS: 3.0**
OFFICE HOURS:			
COURSE WEBSITE:			

Capilano University acknowledges with respect the Lil'wat, Musqueam, Squamish, Sechelt, and Tsleil-Waututh people on whose territories our campuses are located.

COURSE FORMAT
Three hours of class time, plus an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

COURSE PREREQUISITE
45 credits of 100-level or higher coursework

CALENDAR DESCRIPTION
In this course, students will learn about the transformative role of energy within society and how communities can transition towards sustainable energy futures. Different types of renewable and non-renewable energy resources will be analysed in relation to their distinctive physical properties, social values, and environmental impacts. Students will explore diverse energy landscapes at a global to local scale and will critically analyse how these are geopolitically shaped to produce uneven social, economic, and environmental outcomes, including the impact and responses from Indigenous communities. Through exploration of innovation in energy technology, practice and communication, students will explore how sustainable, inclusive, and climate-resilient energy solutions can be designed and implemented.

COURSE NOTES
GEOG 435 is an approved Science course.
GEOG 435 is an approved Science and Technology course for Cap Core requirements.
GEOG 435 is an approved Self and Society course for Cap Core requirements.

REQUIRED TEXTS AND/OR RESOURCES
Gavin Bridge et al. (2018) *Energy & Society: A Critical Perspective* (Routledge)
Additional readings and resources related to weekly topics will be required.

COURSE STUDENT LEARNING OUTCOMES
On successful completion of this course, students will be able to do the following:
- Explain energy system connections to climate cycles and processes of environmental change.
- Evaluate the social and environmental impacts of different types of energy.

- Examine natural and human factors that influence the spatial distribution of energy resources.
- Discuss how human interactions within energy landscapes have changed over time.
- Critically analyze the global, regional, and local geopolitics of energy supply and demand.
- Demonstrate how energy systems can be constructed in more sustainable ways.
- Appraise clean energy technologies in relation to their applicability to diverse communities.
- Develop public engagement and communication plans for inclusive energy futures.

Students who complete this Science and Technology course will be able to do the following:
- Assess the cultural, economic, and political effects of technology.
- Assess the impacts of human activity on natural systems and articulate ways in which environmental sustainability may be achieved.
- Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).
- Explain how scientific inquiry is based on investigation of evidence and evolves based on new findings.

Students who complete this Self and Society course will be able to do the following:
- Identify potential root causes of local/global problems and how they affect local/global cultures, economies, politics, and policies.
- Assess and evaluate individual and collective responsibilities within a diverse and interconnected global society.
- Apply concepts of sustainable development to address sustainability challenges in a global context.
- Analyze the impact of colonialism and racism on Indigenous peoples.
- Synthesize a range of differing community perspectives on ethics and justice and explain how these perspectives can inform structural change.
- Explain how contexts (e.g., cultural, historical, colonial, economic, technological) shape identity formation and social structures.

COURSE CONTENT
The course will be organized into three parts and will combine lectures with studio-based learning, incorporating fieldwork, group projects and collaboration with energy planners and practitioners.

WEEK	COURSE TOPICS
	Part 1: Conceptualizing Energy Landscapes
1	Energy geography and geopolitics
2	Energy landscapes and the environment
3	Energy resources and infrastructures
4	Energy cultures, communities and Indigenous perspectives
5	Energy transitions and environmental change
	Part 2 Contested Energy Geographies
6	Conflictual geographies of energy production
7	Inequalities in energy access and Indigenous exclusion
8	Energy insecurity, disruption, and resilience
	Part 3 Exploring Sustainable Energy Futures
9	Sustainable innovation in energy technologies
10	Embedding sustainable energy practices
11	Designing inclusive energy communication
12	Envisioning sustainable energy futures
13	Showcasing sustainable energy futures

14-15	Final Exam Period

EVALUATION PROFILE

Students will be evaluated through completion of work in the following categories. No individual component will be worth more than 35% of the final course grade.

Quizzes, tests, and exams	20-50%
Activities and assignments	20-50%
Term project	20-35%
TOTAL	*100%*

GRADING PROFILE

A+	= 90-100	B+	= 77-79	C+	= 67-69	D	= 50-59
A	= 85-89	B	= 73-76	C	= 63-66	F	= 0-49
A-	= 80-84	B-	= 70-72	C-	= 60-62		

Incomplete Grades

Grades of Incomplete "I" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

Late Assignments

Assignments for in-person classes are due at the beginning of the class on the due date listed. Assignments for online courses are due by the date and time indicated on eLearn. If you anticipate handing in an assignment late, please consult with your instructor beforehand.

Missed Exams/Quizzes/Labs, etc.

Make-up exams, quizzes and/or tests are given at the discretion of the instructor. They are generally given only in medical emergencies or severe personal crises. Some missed activities may not be able to be accommodated. Please consult with your instructor.

Attendance

Students are expected to attend all scheduled classes and participate in all course activities. If you encounter any issues with attendance, please contact your instructor.

English Usage

Students are expected to proofread all written work for any grammatical, spelling or stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

Electronic Devices

Students will need access to a laptop or other electronic device to participate in the course and an Internet/Wi-Fi connection. Students may use an electronic device during class for note-taking and to participate in class activities. Students may not use electronic devices during tests or exams. Taking photographs of course materials or recording lectures is not permitted for copyright reasons. If you need information technology support, please contact: AskIT@capilanou.ca

On-line Communication
Outside of the classroom, instructors will communicate with students using either their official Capilano University email or eLearn; please check both regularly. Official communication between Capilano University and students is delivered to students' Capilano University email addresses only.

UNIVERSITY OPERATIONAL DETAILS

Tools for Success
Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: https://www.capilanou.ca/student-life/

Capilano University Security: download the CapU Mobile Safety App

Policy Statement (S2009-06)
Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

Academic Integrity (S2017-05)
Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy and procedures S2017-05 Academic Integrity for more information: https://www.capilanou.ca/about-capu/governance/policies/

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

Academic dishonesty is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

Cheating: Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:
- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

Fraud: Creation or use of falsified documents.

Misuse or misrepresentation of sources: Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

Plagiarism: Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

Self-Plagiarism: Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

Prohibited Conduct: The following are examples of other conduct specifically prohibited:
- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,
- Assisting or attempting to assist another person to commit any breach of academic integrity.

Sexual Violence and Misconduct

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

> Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including B.401 Sexual Violence and Misconduct Policy and B.401.1 Sexual Violence and Misconduct Procedure (found on Policy page https://www.capilanou.ca/about-capu/governance/policies/)

Emergencies: Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.