COURSE OUTLINE



Effective Semester: Spring 2024

COURSE INFO	ORMATION				
Course Title: Introduction to Earth Science			Course Number:	GEOG 102	Credits: 3
Total Weeks:	14 (Fall, Spring) 12 (Summer)	Total Hours: 52	Course Level:		☐ Second Year ☐ Revised Course Course
Department: Social Sciences Department Head: A. McDougal Pre-requisites: NONE		Former Course Code(s) and Number(s): N/A			
Co-requisite Statement: NONE					

COURSE DESCRIPTION

Precluded Courses: N/A

Have you ever wondered why some regions experience many earthquakes while other regions experience frequent flooding? This course offers an introduction to physical geography and examines the powerful environmental forces and events that influence our daily lives, and in turn, the ways that humans are altering Earth's systems. Some of the themes covered in this class include the following: volcanism, weathering, mass movement, fluvial systems, glacial systems, soils, and oceans. Lab work, an assignment, and a field trip are an integral part of the course.

LEARNING OUTCOMES

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

- Distinguish between endogenic and exogenic systems that shape the Earth and the driving forces behind them
- Diagram the rock cycle and describe the three groups of rocks
- Explain plate tectonics, volcanic landforms and earthquake fault mechanisms
- Define weathering and discuss the physical weathering processes and types of mass movements
- Explain the processes involved in fluvial systems
- Describe eolian erosion and transport of dust and sand and the resultant landforms
- Explain the dynamic nature of coastlines and the challenges to human settlement
- Understand the human impact on the Earth systems
- Describe the principal soil-forming factors and describe the physical properties used to classify soils
- Explain ecosystems, and discuss the factors affecting ecosystems

INSTRUCTION AND GRADING

Instructional (Contact) Hours:

Туре	Duration
Lecture	26
Seminars/Tutorials	
Laboratory	26
Field Experience	
Other (specify):	
Tot	al 52



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Grading System:	Letter Grades ⊠	Percentage ⊠	Pass/Fail	Satisfactory/Unsatisfactory	Other \square
Grading System:	Letter Grades 🖂	Percentage 🔼	Pass/Fall	Satisfactory/Unsatisfactory \square	Other III

Specify passing grade: 50%

Evaluation Activities and Weighting

Assignments: 2.Field Trip (or) In-class Group Assignment	15%	Lab Work:	15%	Participation: Specify nature of participation:	%	Project: Specify nature of project:
Quizzes/Test:		Midterm Ex	am: 25%	Final Exam: 20%		Lab Exam: 25%

TEXT(S) AND RESOURCE MATERIALS

Required: Christopherson, Robert W., Birkeland, Ginger H., Byrne, Mary-Louise, and Philip T. Giles (2016) Geosystems: Fourth Canadian Edition. Upper Saddle River, New Jersey: Pearson Education, Inc. (Recommended)

COURSE TOPICS

Week	Topic
1	Essentials of Geography
2	The Dynamic Planet
3	The Dynamic Planet
4	Tectonics, Earthquakes
5	Volcanism
6	Weathering, Karst and Mass Movement
7	River Systems
8	Oceans, Coastal Systems
9	Wind Processes
10	Glacial Landscapes
11	Periglacial Landscapes
12	Geography of Soils

NOTES

- 1. Students are required to follow all College policies. Policies are available on the website at: Coquitlam College Policies

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Last Reviewed: February 2024 Last Revised: February 2024