Coquitlam College
Brookmere Secondary

Course: Physical Geography 12 **:**

Welcome to Physical Geography 12! During this course you will learn location, place, movement, regions and human and physical interaction.

Course Description: Students will know:

- structure of, feedback within, and equilibrium of natural systems
- distinguishing features of the atmosphere, hydrosphere, cryosphere, lithosphere, biosphere, and anthroposphere
- connections and interactions between the spheres
- features and processes of plate tectonics and their effects on human and natural systems
- features and processes of gradation and their effects on human and natural systems
- natural disasters and their effects on human and natural systems

Big Ideas: By the end of this course, students will understand:

- Incorporating data from a variety of sources allows us to better understand our globally connected world.
- Natural processes have an impact on the landscape and human settlement.
- Interactions between human activities and the atmosphere affect local and global weather and climate.

Core Competencies:

Communication

Students engage in informal and structured conversations in which they listen, contribute, develop understanding and relationships, and learn to consider diverse perspectives.

Thinking

Students learn to engage in inquiry when they identify and investigate questions, challenges, key issues, or problematic situations in their studies, lives, and communities and in the media. They develop and refine questions; create and carry out plans; gather, interpret, and synthesize information and evidence; and reflect to draw reasoned conclusions.

Personal & Social

Students build and maintain diverse, positive peer and intergenerational relationships. They are aware and respectful of others' needs and feelings and share their own in appropriate ways. They adjust their words and actions to care for their relationships.

Resources:

Studies in Physical Geography – ISBN 978-0-9735999-8-5

Assessment:

Tests and quizzes	25%
Homework, Assignments and projects	55%
Final exam	20%

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With respects to the First People's Principles of Learning, students may be alternatively assessed in ways that people can display knowledge and subject mastery. The alternative assessment can be storytelling, art or other expressions of self, knowing and learning.

- Learning involves recognizing the consequences of one‘s actions.
- Learning involves generational roles and responsibilities.

Expectations:

- Be sure to check MyCC regularly for updates and announcements related to course.
- Complete each assignment to the best of your ability and submit assignments on time
- Always exhibit responsible, cooperative, and respectable behavior
- Please be prepared to work hard!

Week	Topics Covered	• Assignments
1 Unit 1- Earth Surface	• characteristics of global biomes, including climate, soil, and vegetation	• Activity Sheets Key Geographic acts • ESRI ArcGIS Story-Maps Assignment • ESRI Six by Six pt.1 • Quiz
Week 2-3 Unit 2- Gradational Processes	• features and processes of the anthroposphere and their effects on natural systems.	• ESIR Six by Six pt.2 • Quizzes • Workbook Activities • Unit Test
Week 4-6 Unit 3- Weather	• stinguishing features of the atmosphere, hydrosphere, cryosphere, lithosphere, biosphere, and anthroposphere • connections and interactions between the spheres • climate, weather, and interactions between humans and the atmosphere	• Quizzes • Workbook Activities • Predict Weather with Real-Time Data • Unit Test
Week 7-8 Unit 4 Biosphere	• features and processes of the anthroposphere and their effects on natural systems.	• Quizzes • Workbook Survey • Soil Survey

	• natural resources and sustainability •	• Unit Test
Week 9-11 Unit 5- Topographic Mapping	• Use topographic maps to understand modern terrain patterns associated with historical events (e.g., glaciation). • Use satellite imagery of cloud cover to look at atmospheric circulation patterns.	• Quizzes • Work Book Activities • Constructing a 3D Topographic Map • Plot your Course Assignment
Week 12-14 Unit 6 ESRI Arc GIS Online	• Use GIS to map flood potential. • connections and interactions between the spheres	• Quizzes • Workbook Activities • View Depth of Earthquake and Aftershocks In 3D • Understanding the Global Ecosystems Map