

# Earth Sciences 11

**Learning Outcomes:** The activities in this course are based on the core competencies and curricular competencies as provided by the Ministry of Education of BC and will introduce students to five key ideas: Earth materials are changed as they cycle through the geosphere and are used as resources, with economic and environmental implications; plate tectonic theory explains the consequences of tectonic plate interactions; the transfer of energy through the atmosphere creates weather, and this transfer is affected by climate change; the distribution of water has a major influence on weather and climate; and astronomy seeks to explain the origin and interactions of Earth and its solar system.

View the complete Ministry of Education learning outcomes for this course: [Earth Sciences 11](#)

**Resources:** Students require a scientific calculator. All other resources are provided within the course. Students will need good access to the Internet and will be required to use online tools.

**Exams:** All exams and quizzes require a password and are to be invigilated by a teacher at your school or an approved testing center. Exams may be rewritten if needed. Pay attention to the number of marks a question is worth. Be sure to include enough detail to earn all the marks. Exams may cause anxiety for some students. See your teacher for study skills if necessary.

**Communication:** Assignments are submitted directly through your course. Constant communication with your teacher is key to success in a DL course. Phone or email or message your teacher for help whenever necessary.

**Goal Setting:** This course is self-paced and self-directed. Students should plan on working 5-6 hours a week on this course. It is highly recommended that the student creates a calendar of monthly, weekly, and even daily goals. Contact your teacher if help is needed doing this.

**Learning Guides/Projects:** Print out unit learning guide, complete and upload in pdf form. Once mastered, select and complete a unit project, then upload in pdf form. Please ensure these are neat and organized. Learning guides must be submitted before writing unit exams.

**Unit 1: Introduction to Astronomy, Stars and Galaxies**

**Unit 2: Bodies of the Solar System**

**Unit 3: Earth, Sun and Moon as a System**

**Unit 4: Plate Tectonics and Internal Processes of the Earth**

**Unit 5: Surface Processes (Weathering and Erosion)**

**Unit 6: Minerals, Rocks and the Rock Cycle**

**Unit 7: Oceanography**

**Unit 8: Atmospheric Science and Climate**

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## **Assessment**

### **Assessments and Final Exam**

\*all supervised exams must be written at your school or an approved testing center.

This 4-credit course will be broken down as follows:

**Learning Guides – 10%** of the overall grade.

**Unit Projects – 30%** of the overall grade.

**Unit Exams – 40%** of the overall grade.

**Final Exam – 20%** of the overall grade.

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