



Grand River Collegiate Institute
COURSE OUTLINE SES4UI *Earth and Space*
For students and their families.

Course Name

Earth and Space, Grade 12, University Preparation

Curriculum Document <http://www.edu.gov.on.ca/eng/curriculum/secondary/>

Course Code

SES4UI

Prerequisite

SNC2DI

Teacher

Ms. Roy

Contact

519-576-5100 (ext.5043)

Textbook

Earth Science, McDougal Littel, 2005

Course Description:

This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, geography and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.

Essential Learnings/Expectatons/Skills - To be successful in this course you **must** be able to complete **all** of the following essential learnings:

- Demonstrate scientific investigative skills in the four areas of skills (initiating and planning, performing and recording, analysing and interpreting, and communicating).
- Analyse the properties of the universe and have an understanding of its components and techniques used to study it.
- Investigate the solar system and understand the interactions between bodies and analyse how issues are related to its exploration.
- Investigate the processes of earth and understand how geological processes shape earth's surface.
- Analyze the properties and uses of rocks and minerals and explore the economic and environmental impacts of the extraction of these resources.
- Investigate geologic history and understand the changes of Earth's systems over geologic time and how various processes have been recorded and contributed to change.

EVALUATION – Evidence of Learning

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|----------------------------------|------|
| Term Work | |
| • Tests and Quizzes | 35 % |
| • Lab Reports and Assignments | 35 % |
| Final Written Exam – 2 Hour Exam | 30 % |

Refer to the **GRCI Web Site** www.grc.wrdsb.ca for Assessment, Evaluation and Reporting Policies as well as Academic Honesty and Late Policies.

Units/Strands:

Unit 1: Astronomy and Science of the Universe
Unit 2: Planetary Science (A study of the solar system)
Unit 3: Earths Materials
Unit 4: Geologic Processes
Unit 5: Geologic History

Procedures

Late and Missing Assignments: It is important for students to develop good personal management skills (such as time management and planning). These skills will be reflected in the **learning skills** area of the report card. It is expected that students will complete and submit all essential tasks as they are the opportunity for you to demonstrate your learning to your teacher.

Attendance: Attendance in classes is an important part of learning, and absences should be avoided. When a student is absent, a parent/guardian must call the school's attendance line on the date of absence, or provide a note explaining the absence for the student to submit the following day. Students are responsible for what they missed during their absence.

Cheating and Plagiarism: It is important for students to do their own best work. Most assignments for this class are done within the classroom, observed by the teacher, and this helps to minimize the chances of cheating and plagiarism. In the event that cheating or plagiarism occurs, the following consequences may be implemented, in consultation with administration, depending on the situation:

1. The student may be required to redo all or part of the assignment or assessment.
2. The student may be required to complete an alternate assignment or assessment.
3. The student's work may be treated as a missed assignment.

There may also be other consequences that are determined to be appropriate (e.g. detention, suspension, etc.) as per the school's progressive discipline process. Parents/guardians will be informed about the infraction and the consequences.

Please refer to the school website: <http://grc.wrdsb.ca/about/policies> for more details on these policies and other academic procedures.

Signatures

Please sign below indicating you have read and understand the requirements for successful completion of this course.

Student Name

Parent/Guardian