

FOREST HILL C.I. GEOGRAPHY ENVIRONMENT AND RESOURCE MANAGEMENT CGR4M1 2019-2020

Course Overview Environment and Resource Management CGR4M, Grade 12, University/College Preparation

Policy Document: The Ontario Curriculum, Grades 11 and 12, Canadian and World Studies, 2000. Prerequisite: Any University, University/College, or College Preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

Course Description The Environment and Resource Management course investigates the complexity and fragility of ecosystems and the effects of human activities on them. An examination of the processes that shape the earth and knowing how life-forms interact with the environment allows students to view events from an ecological perspective. Students will study the principles of sustainability and resource management and evaluate various approaches to achieving a more sustainable relationship between the environment, society, and the economy.

Units: Titles and Time

Unit 1 Geographic Foundation and Environmental Systems 25 hours Unit 2
Human-Environmental Interaction: The Consequences 25 hours Unit 3 Impact Assessment and
Environmental Protection: Monitoring

Change

25 hours

Unit 4 Planning for a Sustainable Future 25 hours Unit 5 Presentation- Final Summative Activity
10 hours

Final Exam

Unit Overviews

Unit 1: Geographic Foundations and Environmental Systems Time: 25 hours **Unit**

Description This unit examines the relationships between the earth's major components: the lithosphere, atmosphere, hydrosphere, and biosphere. Students gain an understanding of energy flows, the structure of ecosystems and the processes that form them. In the culminating activity, students will have an opportunity to complete a geographic inquiry by conducting field research in the local area. Students begin the process of creating an Environmental Database by researching information on different components and issues concerning the natural environment. Information is collected throughout the entire course and is evaluated at the end of the semester.

Unit 2: Human-Environmental Interaction: The Consequences Time: 25 hours

Unit Description This unit provides students with the opportunity to investigate the roles and effects of human linkages to the Biosphere and Ecological systems. Humans have a dramatic effect on the natural landscape, and this unit focuses on the impact of rural and urban land use practices, as well as environmental degradation and global consumption. On our planet, resources are not distributed evenly. Students examine the spatial distribution of the planet's resources, and the short- and long-term consequences of promoting and maintaining sustainability. In the culminating activity, students will research the relationship between environmental degradation caused by

humans altering the natural environment to meet their needs and its effects on human health, or the impact of an introduced species into an environment. Students continue to add to their Environmental Data Base.

Unit 3: Impact Assessment and Environmental Protection: Monitoring Change

Time: 25 hours **Unit Description** Throughout this unit, students identify and explore issues related to the management of the environment and resources at the local, provincial, national, and international levels. Students apply an Environmental Impact Assessment template to model ways that environmental or resource management issues may be analyzed. Analysis of an international environmental and resource management issue such as air quality leads to a series of one-on-one debates. Students write a Position Paper on an international environmental issue. Students review and assess the effectiveness of Canadian environmental legislation by local, provincial, and federal governments for the sustainability of a specific resource. Students continue to add to their Environmental Data Base.

Unit 4: Planning for a Sustainable Future **Time:** 25 hours **Unit Description** This unit begins with an examination of the rights and responsibilities of individuals to preserve the natural environment. Students investigate the contributions of various non-governmental organizations in identifying and solving environmental issues. In particular, the focus is on the impact these organizations have on planning at the local, regional, national and international levels. Students investigate and evaluate Canada's roles and responsibilities in shaping a sustainable future. In planning for a sustainable future, students are asked to predict the impacts of resource management on environmental problems to be faced this century. Students continue to add to their Environmental Database.

Unit 5: Final Summative Activity-Presentation and Summary Handout **Time:** 10 hours **Unit Description** Students will be selecting a topic of personal interest that is related to the material presented throughout the course. As a culminating activity, students develop a presentation and related handout connected to a topic of their choice, subject to teacher approval. This activity is presented to the class at the end of the year.

**FOREST HILL C.I. GEOGRAPHY EVALUATION
OUTLINE FOR ENVIRONMENT AND RESOURCE
MANAGEMENT CGR4M1**

This is intended as a guideline for students, changes may be made as the course progresses.

TERM WORK 70%

Consisting of the following components:

KNOWLEDGE/UNDERSTANDING 25%

(knowledge of facts and terms/understanding of concepts/theories/principles understanding of relationship between concepts)

THINKING 25%

(critical thinking skills e.g. analysis, detection of point of view/bias creative thinking skills e.g. problem-solving research and inquiry skills e.g. formulating questions/hypotheses/theses, developing arguments, organizing/conducting research, evaluating information, drawing conclusions)

COMMUNICATION 25%

(communicating ideas/information using language/symbols/visuals/graphic skills oral communication e.g. speeches, reports, debates, role-playing, interviews written communication e.g. research essays, reviews, position papers)

APPLICATION 25%

(application of concepts/skills, transfer of concepts and skills to new contexts making logical conclusions/generalizations, making predictions, making connections e.g. between personal experiences and the subject, between subject and outside world)

EXAM 20%

Comprehensive final exam based on all course material

CULMINATING In-class research topic based on course material **10%**

TOTAL (CALCULATED CUMULATIVELY) 100%

LEARNING SKILLS Part of the assessment for this course involves regular checking or tracking of student learning skills and commitment to the course.

* **Work Habits** (completes all assigned class/homework, submits work on time, follows directions, makes up missed work)

* **Organization** (well-prepared for class with required materials, effectively uses agenda, organizes binder efficiently, makes effective plans to complete assignments/projects)

* **Teamwork** (contributes effectively/productively in groups in a variety of roles to achieve goals, shares ideas, shows respects for opinions of others, acts passively and actively)

* **Initiative** (self-directed/motivated, strives for quality/excellence, makes alternative plans in face of problems, positive attitude to learning, recognizes what needs to be done and does it, actively seeks help when needed)

* **Works Independently** (manages time well, meets deadlines, successfully plans and executes tasks, accepts responsibility for own behaviour/achievement, requires little teacher supervision)

Note: The above skills are not evaluated using a numerical value but are assessed on the report card according to the following designations:

E= Excellent G= Good S= Satisfactory NI= Needs Improvement