

A: Division: Instructional DATE: March 22, 1993

 B: Department: SCIENCE & TECHNOLOGY New Course: X

 Revision of Course
Information form: _____

DATED: _____

 C: SCIE 100 D: ENVIRONMENTAL ISSUES E: 3
 Subject & Course No. Descriptive Title Semester Credit

F: Calendar Description

The survival of this planet will, in large part, depend upon people acquiring an understanding of the intricate interrelationship of the physical, chemical and biological systems found in nature and the impact upon them of human activity. In this context, this course will review the critical environmental issues of our time.

Summary of Revisions:
 (Enter date & section)
 Ex: Section C,E,F, &R

G: Type of Instruction:	Hours Per Week/ Per Semester	
Lecture	<u>4</u>	Hrs.
Laboratory	_____	Hrs.
Seminar	_____	Hrs.
Clinical Experience	_____	Hrs.
Field Experience	_____	Hrs.
Practicum	_____	Hrs.
Shop	_____	Hrs.
Studio	_____	Hrs.
Student Directed Learning	_____	Hrs.
Other	_____	Hrs.
TOTAL	<u>4</u>	HOURS

H: Course Prerequisites:
 NONE

I: Course Corequisites:
 NONE

**J: Course for which this course
is a pre-requisite**
K: Maximum Class Size:
 35

M: Transfer Credit:
 Requested X
 Granted _____

**Specify Course Equivalents or
Unassigned Credit as Appropriate**

 U.B.C. unassigned credit in Arts (3)
 S.F.U. Geog (3)
 U. Vic. Environmental Studies 100 level (1.5)
 OTHER:

 L: College Credit Transfer X
 College Credit Non-Transfer _____



Course Designer(s)



Dean


 Vice-President - Instruction

Registrar

**N: Textbooks and materials to be purchased by students
(Use Bibliographic Form):**

Readings to be assigned by course instructor.

Miller Jr., Tyler G., (1998) Living in the Environment:
Principles, Connections and Solutions, 10th Ed., Wadsworth Pub.

Complete Form with Entries Under the Following Headings:

- O. Course Objectives; P. Course Content; Q. Method of Instruction;
R. Course Evaluation

O. Course Objectives:

1. Specific course objectives will depend upon the mix of disciplines involved in the course content. A general outline of the objectives will be provided to students at the beginning of the course by the course coordinator while detailed objectives for each component of the course will be provided by each participating instructor.
2. The overall objective of this course is to emphasize the interrelationships of the physical, chemical and biological systems found in nature and the impact upon them of human activity. As such, upon successful completion of this course the student will be able to:
 - a) Show an understanding of the essential attributes of the important environmental issues presented in class.
 - b) Demonstrate an understanding of the multidisciplinary nature of these issues.
 - c) Discuss the long and short term implications of human kind not dealing with these issues.
 - d) Define the concept of "sustainable development" and discuss its importance and relevance to the future of human activity.
 - e) Show how an individual through their own lifestyle make an impact upon the environment and how they might be able to contribute to finding solutions to environmental problems.

P. **Course Content:**

The specific course content will vary depending upon the mix of disciplines involved in the course and the particular topics chosen for presentation by these disciplines. However, issues discussed will include topics from the following list:

1. Ecosystems and Species Diversity
2. Groundwater contamination - toxic/hazardous waste disposal
3. Natural Hazards
4. Global Warming
5. Sustainable Development
6. Atmospheric Chemistry - Air pollution
7. Modelling
8. Population Dynamics
9. Environmental Ethics
10. Public Policy - Environmental Law
11. Energy
12. Resource Depletion
13. Economics and the Environment
14. Genetic Engineering
15. Public Health and the Environment

Q. **Method of Instruction:**

The primary method of instruction will be weekly lectures given by selected disciplines. Introductory and summary lectures as well as course logistics will be the responsibility of a course coordinator. Course topics will be scheduled to provide continuity of topics. Audio visual presentations will be used where appropriate.

R. **Course Evaluation:**

	%
1. Attendance	10
2. Topic Essays (2)	40
3. Midterm Exam	25
4. Final Exam	<u>25</u>
	100%

Students will choose one essay, due at midterm, and one essay, due at end of term, from a list of essay topics provided. A maximum number of essays may be chosen for any one topic.