

GRANDE PRAIRIE REGIONAL COLLEGE

DEPARTMENT OF SCIENCE
FALL - 1986

COURSE: Biology 210 - Biology and the Modern World

INSTRUCTORS: J. Snyder
Office: Portable R1

P. Johnson
Office: Portable R8

NATURE OF COURSE: This course explores the biological basis of human ecology and the environmental problems facing the world. Major subject areas reviewed will include: the nature of science, the ecosystem and humans, human populations, humans and the food chain, human habitats, endangered environments and the future of the earth. The course consists of three hours of lecture and three hours of laboratory per week.

REQUIREMENTS:

- A. Since presence at lectures and labs, participation in classroom discussions and projects, and the completion of assignments are important components of this course, students will serve their interests best by regular attendance. Those who choose not to attend must assume whatever risks are involved. In this connection the attention of students is directed to the Academic Guidelines of the College.
- B. There will be two quizzes, a mid-term exam and a final exam.

EVALUATION:

A. Laboratories and Lab reports	20%
B. Quizzes (10% each)	20%
C. Mid-term exam	20%
D. Final exam	40%

TEXTBOOK/RESOURCES:
Scientific Analysis Module (furnished by Instructor)
Miller, J.T., Jr. and P. Armstrong, 1982. Living in the Environment, International edition, Wadsworth International Group, Belmont, California.

GENERAL LECTURE SCHEDULE: Lecture and Lab schedules are attached.

BIOLOGY 210
GENERAL LECTURE SCHEDULE
(FALL 1986)

DATE	TOPICS	ASSIGNED READINGS
Sept. 5	Introduction	-
Sept. 8-12	The Nature of Science	Scientific Analysis Module
Sept. 15-19	An overview of nature and humans	Text Chpts. 1 & 2
	<u>Quiz - Sept. 19</u>	
Sept. 22-Oct. 3	Ecosystems and the Biosphere: The concept, ecosystem development and human impact.	Chpts. 3, 4, 5 & 6
Oct. 6-10	Human populations: History, growth and density, and control of population growth	Chpts. 7 & 8
Oct. 13-31	Land use: An ecological approach Food resources, past & present Urbanization Natural areas	Chpts. 9, 10, 11 & 12
	<u>Mid-term exam - October 17</u>	
Nov. 3-21	Resources: Non-renewable and Renewable, the energy crisis	Chpts. 13, 14 & 15
	<u>Quiz - November 14</u>	
Nov. 24-28	Pollution	Chpts. 16, 17 & 18
Dec. 1-8	Environment and Society: The World Crisis, economics, politics, environmental ethics and the future	Chpts. 19, 20 & 21

BIOLOGY 210
LABORATORY SCHEDULE
(FALL, 1986)

DATE	LAB
September 8	Field trip
September 15	Human genetics
September 22	Population growth
September 29	Birth Control
October 6	Grande Prairie City Parks
October 13	Holiday - no lab
October 20	Begin garbage lab
October 27	Complete garbage lab
	begin "A Planet for the Taking"
November 3	"A Planet for the Taking"
November 10	"A Planet for the Taking"
November 17	"A Planet for the Taking"
November 24	"A Planet for the Taking" lab report/assignment <u>DUE</u> .