



Grande Prairie Regional College
Department: Academic Upgrading

COURSE OUTLINE—Winter 2008

Science 100 5(5-0-0) Science and Society

Instructor's name: Joelle Reynolds

Phone number: 539-2227

Instructor's office: A207

Email: JReynolds@GPRC.ab.ca

Office Hours: 8 – 9am Tues/Thurs, 1 – 2:30pm Fridays, or by appointment

Calendar Description:

SC 0100 Science and Society 5 (5-0-0) HS Time: 75 Hours

Description: This course is meant to increase the pre-high school student's understanding of connections between science, technology and society. You will be introduced to basic ideas about science, technology, biology, chemistry, physics, ecology, scientific method, along with related social issues.

Corequisites: EN 0090 and MA 0090 or consent of instructor.

Resource requirements:

No recommended textbook. Tests and exams will be based on class notes and activities.

Attendance:

Regular attendance is expected of all students. Success in education has been shown to be directly linked to attendance. Attendance will be taken during class. Any student **missing more than 15 classes may be debarred from writing the final exam**. Lateness is highly disruptive to a class. Please be considerate.

Assignments, Tests and Exams:

All assignments and exams **MUST** be completed on time. A missed exam will result in a score of zero unless **PRIOR arrangements** have been made with the Instructor for valid reasons to write the test/exam at some other time. All assignments **MUST** be handed by the deadline.

Course Delivery and Evaluation:

This course is a lecture course which requires student participation. The course content is divided into 4 units. The course is evaluated as follows:

Unit 1 - Earth Science	15%
Unit 2 - Physics	15%
Midterm	15%
Unit 3 - Chemistry	15%
Unit 4 - Biology	15%
Final	25%

Final grades are given as follows:

Alpha Grade	4-Point Equivalent	Percentage Guidelines	<i>Designation</i>
A+	4.0	90 - 100	Excellent
A	4.0	85 - 89	
A-	3.7	80 - 84	First Class Standing
B+	3.3	76 - 79	
B	3.0	73 - 75	Good
B-	2.7	70 - 72	
C+	2.3	67 - 69	Satisfactory
C	2.0	64 - 66	
C-	1.7	60 - 63	
D+	1.3	55 - 59	Minimal Pass
D	1.0	50 - 54	
F	0.0	0 - 49	<i>Fail</i>

Unit / Appx Classes	Major Topics Covered
Unit 1: Earth Science 13 days	<ul style="list-style-type: none"> • Space • Models of the Universe • Geology • Plate Tectonics, Earthquakes and Volcanoes • Rocks, Minerals and Fossils • Water and The Water Cycle • Tides and Currents
Unit 2: Physics 12 days	<ul style="list-style-type: none"> • Energy Forms • Law of Conservation of Energy • Thermal Energy • Electrical Energy • Light Energy
MIDTERM EXAM TBA	
Unit 3: Chemistry 13 days	<ul style="list-style-type: none"> • Classification of Matter • Mixtures and Solutions • Elements and The Periodic Table • Atomic Structure • Compounds and Reactions
Unit 4: Biology 12 days	<ul style="list-style-type: none"> • Plants and Plant Structures • Plant Growth and Reproduction • Adaptation, Species, Variation • Food Chains and Webs • Natural and Artificial Selection • Human Impact on Ecosystems • Sexual and Asexual Reproduction • Biotechnology and Society
FINAL EXAM TBA	