



**COURSE OUTLINE (Winter 2013)**

**Course:** SC0130 – Science Grade 12 Equivalent 5 (5-0-1.5) HS

<b><u>Instructor</u></b>	<b><u>Office</u></b>	<b><u>Phone</u></b>	<b><u>E-mail</u></b>
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<b><u>Classroom</u></b>	<b><u>Lab</u></b>	<b><u>Time of Lectures</u></b>	<b><u>Time of Labs</u></b>
A204	J126	MW 10:00-11:20 TR 10:00-10:50	F 9:30-11:20

**Office Hours:** 2:30-5:30 PM Tuesday and Thursday or by appointment or drop-by

**Transferability**

This course is equivalent to the Alberta Learning Science 30 curriculum, and is listed as such in the Alberta Transfer Guide.

**Prerequisites**

BI0120 (Biology 20 or Science 20); CH0120 (Chemistry 20 or Science 20); EN0120 (English20-1 or 20-2) or EN0130 placement; MA0110 (Math10C) or MA0123 (Math 20-3) or MA0120 placement

**Calendar Description**

This course studies the interaction of humans and their environment with an emphasis on evaluating and maintaining both personal and environmental health. The four units of study include: Maintaining Health, Chemistry and the Environment, Electromagnetic Energy, Energy and the Environment

## Course Objectives and Syllabus

- To develop a clear understanding of scientific concepts, knowledge and technologies in maintaining personal health, as specifically related to circulation system and genetics, and environmental health, as particularly related to energy and its relevance to chemistry and physics.
- To continue to build on positive attitudes, interests and inquiring skills in science-related questions and issues; and confidently seek, assess and apply evidence when evaluating alternative approaches.
- To cultivate mutual respect, collaboration and responsible stewardship in pursuing a balance between the needs of humans and a sustainable environment through the development of science and technology.

A detailed *course syllabus*, which lists all the major learning outcomes, course schedules and tentative timelines, is included in a separate document available through Moodle.

## Required Text Book

1. Science 30 Project Team. 2007. **Science 30**. Alberta Education, Edmonton, Alberta. (ISBN 978-0-7741-2891-9).
2. Government of Alberta, **Science Data Booklet**, Updated 2009 (Available at Moodle)

## Other Supplies

Other supplies you will need include a binder, lined paper, unlined white paper, computer paper, pencil, calculator, stapler, and lab coat (optional). Please be aware of the new Student Printing Policy at <http://www.gprc.ab.ca/pdf/policies/admin/StudentPrintingPolicy.pdf>

## Delivery Mode(s)

SC0130 is lecture-based mostly according to the textbook above, supplemented by hands-on lab exercises. Other supplementary learning materials are also included in Moodle, a computer-based course management system at the College. You may access Moodle via any computer with an Internet link. If you do not have a personal computer, you may sign in to use the computers in A205 during daytime hours or in the library during evening and weekend hours.

## Lab Manual and Schedule

The lab manual is available in Moodle. Please bring a copy with you to the first lab. Labs are not held each week; however, when scheduled, they each require 2 hours. Please pay attention to announcements in terms of detailed lab schedule in Moodle and/or during lectures.

If you are late for a lab, you might not be permitted to do the lab as important safety concerns are always addressed at the beginning of each lab period. Due to safety reasons, you will NOT have the opportunity for a make-up lab, if you miss a lab, and you will automatically receive a grade of zero for that lab. You cannot use another person's data or class data to compile a lab report.

**Evaluation (relative percentage):**

Four Unit Tests (9% each).....	36%
Lab Reports.....	12%
Assignments.....	12%
Midterm Exam .....	20%
Final Exam.....	20%
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<b>Total</b>	<b>100%</b>

Dates for tests, exams, labs, and assignments will be announced in class and entered on the Moodle.

Grade Conversion Chart

Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A <sup>+</sup>	4	90 – 100	EXCELLENT
A	4	85 – 89	
A <sup>-</sup>	3.7	80 – 84	FIRST CLASS STANDING
B <sup>+</sup>	3.3	76 – 79	
B	3	73 – 75	GOOD
B <sup>-</sup>	2.7	70 – 72	
C <sup>+</sup>	2.3	67 – 69	SATISFACTORY
C	2	64 – 66	
C <sup>-</sup>	1.7	60 – 63	
D <sup>+</sup>	1.3	55 – 59	MINIMAL PASS
D	1	50 – 54	
F	0	0 – 49	FAIL

## **General Rules for Exams, Tests, Assignments, and Lab Reports**

As per the College calendar, students are responsible to “write tests and final examinations at the times scheduled by the instructor or the Office of the Registrar”.

Students are also expected to submit all assignments and lab reports according to the deadlines.

Any students missing a test/exam, or not submitting an assignment/lab report on the required due date, will receive a **grade of zero** for that exam/test/assignment/lab report, unless:

1. A notification is made to the instructor prior to the time of the test or the due date, AND,
2. A doctor’s note or a satisfactory explanation under the extreme circumstance is provided.

If you must write an exam/test or submit an assignment/lab report after the required date, you will lose 20%, unless a doctor’s note is provided. Once a test/exam/lab report/assignment has been handed back to the class, there is no opportunity for a late write or hand-in. The student will be assigned a grade of zero for that test/exam/lab report/assignment.

## **Statement on Plagiarism and Cheating**

The instructor reserves the right to use electronic plagiarism detection services. Although you work together in pairs in the lab, you are to write separate reports, which are your own work.

Please refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at [www.gprc.ab.ca/about/administration/policies/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

## **Student Responsibilities** (AUD Student Classroom Department Guidelines)

The Academic Upgrading Department (AUD) is an adult education environment. Students are expected to show respect for each other as well as faculty and staff. They are expected to participate fully in achieving their educational goals in a timely manner.

Certain activities are disruptive and not conducive to an atmosphere of learning. In addition to the ***Student Rights and Responsibilities*** as set out in the College calendar, the following guidelines will maintain an effective learning environment for everyone. We ask the cooperation of all students in the following areas of classroom department.

1. Students are expected to turn off cell phones during class time or in labs.
2. Refrain from disruptive talking or socializing during class time.
3. Be respectful of others regarding food or beverages in the classroom. Clean up your eating area and dispose of garbage.
4. Recycle paper, bottles and cans in the appropriate containers.
5. Students are expected to be punctual. Arrive on time for classes and remain for the duration of scheduled classes or related activities.
6. Children are not permitted in the classrooms.

### **Attendance**

If students miss more than 15% (or 10 days) of classes per semester in any course, they may be given a failing grade for the course. It is the student's responsibility to notify his/her instructor of any extenuating circumstances. You are responsible for getting the notes and handouts for material missed from your fellow classmates.

### **Electronic Devices**

Electronic devices, other than simple calculators, are not allowed into tests or exams.