



Dr. E. P. Scarlett High School Science 14 & 10-4



Course	
Pre-Requisite	Grade 9 Science
Textbook	Science Connect I
Supplies	Binder, loose-leaf paper, scientific calculator, pens, pencil, eraser

Teacher(s)	E-mail	Room
Ms. Crealock	aecrealock@cbe.ab.ca	141

TEACHER COMMUNICATION: Teachers will respond to e-mail within two business days. E-mail is the best way to contact teachers.

COURSE DESCRIPTION:

In Science 14, students are exposed to each major science subject. The study of science is required to give students an understanding of the nature of science and encourages them to make informed application of scientific concepts to their daily lives. Science 14 is a prerequisite course for Science 24.

LEARNER OUTCOMES:

- **Attitudes** - Students will be encouraged to develop attitudes that support the responsible acquisition of application of scientific and technological knowledge to the mutual benefit of self, society and the environment - interest in Biology, mutual respect, scientific inquiry, collaboration, stewardship & safety
- **Knowledge** - Students will construct knowledge and understandings of concepts in life science, and apply these understandings to interpret, integrate and extend their knowledge
- **Science, Technology and Society (STS)** - Students will develop an understanding of the nature of science and technology, the relationships between science and technology and the social and environmental contexts of science and technology
- **Skills** - Students will develop the skills required for scientific and technological inquiry, for solving problems, for communicating scientific ideas and results, for working collaboratively and for making informed decisions.
- Alberta Learning: <https://www.alberta.ca/programs-of-study.aspx>

EXTRA SUPPORT:

- Students should make use of class time to ask for help
- Teachers are available in their classrooms at 8:30am (Mon – Thurs) for extra help
- Science help room is available 8 – 8:45 (Mon – Thurs) in room 151
- If additional support is still needed, students should make appointments with teachers.

LEARNER ASSESSMENT:

- Learning is a process. Teachers will use a variety of instructional tools and assessment to help students understand the Program of Study outcomes.
- Formative assessment informs instruction and provides guidance to students about how to improve.

- Summative assessment (such as quizzes and/or unit exams) will be used to verify that students have learned the intended outcomes. As a result, summative assessments will represent a greater portion of the students' overall grade
- Teachers will post grades in Powerschool which is available for students and parents to view

	Unit	Weighting
A	Investigating Properties of Matter	25
B	Energy Transfer Technologies	25
C	From Life to Lifestyle	25
D	Matter and Energy in the Biosphere	25

CLASS EXPECTATIONS:

- Regular attendance and a readiness to actively engage with the course content
- This is an in-person course. D2L is used for online support. Students should check D2L often for instructions and resources.
- Understanding that learning is a process which builds on prior knowledge, as a result effective study habits are required.
- When learning complex ideas, sustained motivation and cognitive engagement are required to maintain considerable mental effort. As a result, cell phone use should be minimal and appropriate for the school environment
- Academic Integrity – a commitment to the regular and honest completion of work (ie. no cheating or copying from peers or the internet). Students and parents are required to be familiar with academic integrity policies found on the school website (<https://school.cbe.ab.ca/school/DrEPScarlett/teaching-learning/program-approach/academic-integrity/Pages/default.aspx>).
- Students are required to complete all assessments, even when absent.
- Reasons for unavoidable absences should be communicated to teachers. It is the student's responsibility to arrange with their teacher, to make up missed assessments.

Fees	Description
\$5.00 (optional)	Lab Goggles – if students would like to own their goggles, they are available to purchase in the business office (goggles are provided).

SAFETY:

- Students will follow all Laboratory Safety rules each time they are in a science classroom
- Laboratory safety rules are posted in classrooms and in D2L shells
- Students will complete a Laboratory Safety course in D2L prior to conducting any labs.

LABORTORY OPPORTUNITIES:

- Students may have the opportunity to participate in the following labs:
 - Polymer Lab (Slime)
 - Bottled Sunshine (Chemical Reactions)
 - Heart dissection
- Additional labs may be included if resources and time allow