



Dr. E. P. Scarlett High School Biology 30



Course	
Pre-Requisite	Minimum 50% in Biology 20
Textbook	<i>Inquiry into Biology</i> . Whitby, ON: McGraw-Hill Ryerson Ltd. Hardcopy available for sign-out from the library, PDF copy online in the D2L shell.
Supplies	Binder, loose-leaf paper, scientific calculator, pens, pencil, eraser

Teacher(s)	E-mail	Room
Mr. McKillop	mdmckillop@cbe.ab.ca	158

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

COURSE DESCRIPTION:

Biology is the study of life and living systems. In this course, students are given opportunities to further explore and understand the natural world around them and to become aware of the profound influence of biology in their lives. Biology 30 will encourage interest in, and enthusiasm for science, an understanding of the scientific enterprise, open-mindedness, respect for the views of others and sensitivity to the living and the non-living environment. Biology 30 will foster the scientific skills of planning investigations and processing data. An emphasis will be placed upon STS (the connections among Science, Technology and Society).

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 an ongoing process. Teachers will use a variety of instructional tools and assessments to help students understand the Program of Study outcomes.
- Teachers will post grades in Powerschool which is available for students and parents to view

	Unit	Weighting	Chapters
A	Molecular Genetics and Cell Division	20	16, 18
B	Classical genetics	20	17
C	Nervous System	20	11,12
D	Endocrine and Reproductive systems	20	13, 14, 15
E	Population Genetics	20	19,20

The classroom grade is worth 70% of the final course grade and the Diploma exam, written in January, is worth 30% of the final course grade.

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 and may include instructions and resources.
- 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

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.

LABORATORY OPPORTUNITIES:

- Students will have the opportunity to participate in the following labs:
 - DNA extraction
 - Eye Dissection
- Additional labs may be included if resources and time allow