

Cochrane High School



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Biology 20 Course Outline

Objectives:

1. Students will show interest in science-related questions and issues.
2. Students will be encouraged to confidently pursue personal interests and career possibilities within science-related fields.
3. Students will appreciate that scientific understanding evolves from the interaction of ideas involving people with different views and backgrounds.
4. Students will seek and apply evidence when evaluating alternative approaches to investigations, problems and issues.
5. Students will work collaboratively in planning and carrying out investigations and in generating and evaluating ideas.
6. Students will demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment.
7. Students will show concern for safety in planning, carrying out and reviewing activities, referring to the WHMIS and consumer product labeling information.

Schedule:

| | | |
|----------|---|------------|
| Topic A | <u>Photosynthesis Theme</u> | |
| Term 1/4 | Energy and Matter Exchange in the Biosphere | 15 classes |
| | Ecosystems and Population Change | 19 classes |
| | Photosynthesis | 7 classes |
| Topic B | <u>Cellular Respiration Theme</u> | |
| Term 2/3 | Human Systems | 27 classes |
| | Cellular Respiration | 8 classes |
| Review | | ~3 classes |

Formative Assessment (not included in student grade)

- Homework assignments, Case studies, at-home quizzes, In-class question/answer and discussions
- Guest speaker series (in development)
- Video conferencing (in development)
- Teacher written comments and conferencing on student work (metacognition)
- Peer Assessments on student work (metacognition)

Summative Assessment:

| | | |
|----|---|-----|
| 1. | Term Exams-2 | 30% |
| 2. | Theme projects | 20% |
| 2. | Performance Activities, Lab Reports, Essays | 20% |
| 4. | Final Exam | 30% |

Required Material:

- | | | | |
|---|---------------|---|------------|
| * | 3 ring binder | * | calculator |
| * | ruler | * | pen/pencil |
| * | eraser | * | textbook |

Study Skills, Note Taking Skills, Scheduling Time

<http://www.ucc.vt.edu/stdysk/stdyhlp.html> (Virginia Tech)

<http://www.studygs.net> (Study guides and Strategies)

Extended Absences

In the event that the student is absent from school for an extended period of time for reasons other than bereavement or illness, the teacher will provide work missed during that time but it will not be marked. Extra tutoring will not be provided either before or after the extended absence. The student will be required to write the unit exam within two days of returning to class. Absences can be monitored using homelogic.

MOODLE: <http://moodle.rockyview.ab.ca/course/view.php?id=285>

Login: firstnamemiddleinitiallastname **Password:** student 8 digit id

The Biology 20 homepage and term pages on Moodle contain all course materials. Access is limited to the students enrolled in the course this semester.