



## Biology 12 Course Outline

The purpose of Biology 12 is to explore life from a molecular perspective. The underlying concepts provide connections between units of study, demonstrating the molecular basis of regulation and evolutionary change. The design is intended to foster an awareness of the tremendous impact of biology and technology upon society.

### Appropriate Language:

Maintaining ESDH's respectful learning environment requires certain expectations regarding the use of appropriate language throughout the building and school property. Appropriate language is courteous, non-intimidating, and excludes swearing or cursing. Inappropriate language cannot be tolerated as it has a negative effect on the learning environment.

### Assessment and Evaluation:

Both teacher and student learn from assessment. The teacher learns what further instruction a student needs; the student learns their strengths, their challenges and what must be done to improve. As such, BIO12 will make use of both formative and summative assessments in the form of hands-on activities, assignments, projects, labs, tests, and group work. Homework plays a key role in review and reinforcement of concepts. Parents and students are encouraged to obtain PowerSchool logins to have access to the most up-to-date student progress.

### Late Assessments:

Students are responsible for completing assignments by specified due dates so that teachers can provide timely feedback. A due date is given for each assignment. If the student does not hand in the assignment on the due date, the student may consult with the teacher regarding a possible alternate due date. This must be done in a timely manner. If the alternate due date is granted but not met, the student will have missed the opportunity to demonstrate achievement towards the outcomes and the student's grade will be affected.

### Missed Work During Absences:

If a student misses one or more classes due to illness, travel, sports, extracurricular activities, etc., the following process will be followed:

1. Upon returning to school, the student is responsible to contact the teacher to find out what work was missed.
2. The student is responsible for obtaining notes for missed classes and completing all work that was done on the day(s) missed.
3. If an assignment was due, or a test/quiz was to be written on the day of the absence, the student will hand in the assignment or write the test/quiz on the **first day back** to school, provided that the missed day was an **excused absence**.
4. If an assignment or lab was given on the day of the absence, the student should contact the teacher to determine the deadline for making up the missed work.

### Curriculum Outcomes:

Biology 12 consists of four units of study, shown below along with the values that each unit comprises toward the 80% term mark. The remaining 20% will be the final examination.

#### MAINTAINING DYNAMIC EQUILIBRIUM II (25%)

- Nervous System: Neurons and Structure and Influences on the Nervous System
- Endocrine System: Maintaining Homeostasis and Feedback Mechanisms

#### REPRODUCTION AND DEVELOPMENT (20%)

- Cell Division – Mitosis and Meiosis
- Reproduction Systems: Regulation and Technologies
- Embryonic Differentiation and Development

#### GENETIC CONTINUITY (40%)

- Genetics: Molecular Level – DNA Structure, Replication, Protein Synthesis
- Mendelian Genetics and Implications

#### EVOLUTION, CHANGE, AND DIVERSITY (15%)

- Evidence and Mechanisms and Implications

To view a more detailed listing of the outcomes for Biology 12, please go to: <http://tonen.ca/biology-12/>