



Anatomy and Physiology 12 course outline

Anatomy and Physiology 12 (previously Biology 12) is a course designed to meet the new BC Anatomy and Physiology 12 Curriculum (2018). The course offers interactive lessons, a variety of guided activities, assignments and labs, and rubric-based assessment. There are learning guides to assist in note taking throughout the course.

This course consists of four units that incorporate the Big Ideas of Homeostasis, Gene Expression and Organ Systems. The first two units focus on cellular biology and the last two units cover the major systems of the body, focusing on anatomy and physiology.

The course has a lecture-based component, but also allows students to explore with hands-on activities and inquiry based learning. Collaboration is an important factor in achieving success. Students will have opportunities to assess their own learning, as well as the learning of their peers, and they will also apply First Peoples perspectives and knowledge, other ways of knowing, and local knowledge as sources of information to enhance their learning.

Your grade in this course/ journey will be based on assignments, laboratory investigations, projects, presentations, quizzes, and tests. You will be working in groups and every student has a role to play in finding the solutions to assigned problems.

Topics

Unit One

- Chapter 1 Homeostasis, Cell Structure and Function
- Chapter 2 Cell Compounds and Biological Molecules
- Chapter 3 Cell Membrane Transport

Unit Two

- Chapter 4 DNA Replication
- Chapter 5 Protein Synthesis-Gene Expression
- Chapter 6 Enzymes

Unit Three

- Chapter 7 Digestive System
- Chapter 8 Circulatory and Lymphatic Systems

Chapter 9 The Heart and Blood Pressure

Chapter 10 Respiratory System

Unit Four

Chapter 11 Nervous System

Chapter 12 Urinary System

Chapter 13 Reproduction System

<u>Distribution of Marks</u>	<u>Percentage</u>
Assignments	20
Quizzes	20
Midterm	30
Final	30
	100

Homework, Work Habits & Conduct

Homework will routinely be checked for completion at the start of class. Absences are your responsibility to make up, but in terms of content and assignments. Students can expect a simple review quiz, most classes. These quizzes are to be completed at the beginning of the class with lateness causing incompleteness earning a mark of zero. Missed quizzes due to excused absences will be omitted on an individual basis. There will be in-class assignments as well as take-home assignments. You can expect homework every night....how much will depend on how well you work in class.

Students should arrive to every class with pen, pencil, scientific calculator, data book and other materials.

Assignments, Labs and Projects: All work assigned MUST be completed and turned in at the specified time. Late assignments will be given a mark of zero, unless otherwise submitted. Late deductions may apply. You are encouraged to collaborate with others, but submitted work must be your own.

Tests: Test dates and due dates for assignments will be made very clear. Extensions on assignments will only be made for legitimate reasons; otherwise late assignments will receive deductions of 10% per day. Any tests that are missed for illegitimate reasons will be given a mark of zero.

Extra Help: Extra help is available after school if arranged ahead of time.