

New Westminster Online Learning School

Anatomy & Physiology 12:

Course Description

The human body is the focus of this course. As you learn the body's biochemistry, anatomy, and physiology, you will be challenged with the bigger question of how the different parts of the body interrelate at the molecular and organ systems level to maintain health.

Course Expectations

Students are expected to complete the first unit within 2 weeks of enrolling, to log in and make progress each week, and to finish the course within a 4–5-month period of time. They are expected to be in communication with their teacher when they have questions and if they need additional time. Students are expected to submit their own work, and to cite sources when using the work of others.

Enduring Understanding/Big Ideas

Students will focus on the following:

- Homeostasis is maintained through physiological processes.
- Gene expression, through protein synthesis, is an interaction between genes and the environment.
- Organ systems have complex interrelationships to maintain homeostasis.

Specific Learning Outcomes

Curriculum details can be found at:

<https://curriculum.gov.bc.ca/curriculum/science/12/anatomy-and-physiology>.

Course Content

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| Unit 1 | Biochemistry |
| Unit 2 | Cell Biology |
| Unit 3 | Gene Expression |
| Unit 4 | Circulatory |
| Unit 5 | Nervous |
| Unit 6 | Respiratory |
| Unit 7 | Digestive |

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| Unit 8 | Endocrine |
| Unit 9 | Excretory |
| Unit 10 | Reproductive |

Student Learning Activities and Strategies

All materials, lessons, and assessments are online and use a combination of text, short videos, interactive animations, and links to websites, to help students understand the concepts. Now, while the materials are online, it will still be helpful for students to keep an organized binder with notes taken from video and text lessons, handouts they might want to print, as well as their project work.

Assessment

Student understanding is assessed through projects, quizzes, conversations with their teacher and module tests. Quizzes provide a way to check understanding and get feedback and help from the teacher. All assessments are completed from home; however, students might be required to come to a supervised location to write a test.

Ministry assessment and reporting information can be found at:

<https://curriculum.gov.bc.ca/classroom-assessment>.

Evaluation

Your final mark is determined by the progress you have made in understanding key concepts and skills as demonstrated through project work (~50%) and module tests (~50%).

Resources

All materials are online, which this means access to reliable high-speed internet is essential, and that students use a laptop, desktop, or Chromebook. No textbook or workbook is required.