Course name

Grade 11 Biology

Course summary and expectations

* Welcome to Grade 11 Biology! This course is focused on body systems and organs that keep us alive, with a major theme being our body’s homeostatic balance. Students may recall that human reproductive systems were studied in grade 9 science, but most material in this course is new.
* A module is due every two weeks. For each module, read all content, do practice problems, and complete assignments and tests.

Module listing

Module 1: Wellness and Homeostasis

* health and wellness, personal wellness
* homeostasis in body systems, cell processes, energy and life

Module 2: Digestion and Nutrition

* parts of the human digestive tract, chemical digestion, nutrients and nutrition

Module 3: Gas Exchange

* parts of the respiratory system, lung capacity, the chemistry of respiration

Module 4: Circulation

* structure of the heart and blood vessels, structure of the lymphatic system
* heart rate, stroke volume, and blood pressure

Module 5: Blood and Immunity

* blood components, blood cell types, blood type, the blood and homeostasis
* the immune system, non-specific defenses and specific defenses

Module 6: Excretion

* organs of the excretory system, the chemistry of absorption and excretion

Module 7: Control Mechanisms

* homeostatic function of the endocrine system, mechanisms of hormone action
* structure and function of the nervous system, types of nervous response

Module 8: Wellness and Homeostatic Changes

* responses to changing conditions
* theories of aging, life expectancy, aging and wellness
* end of life, medical criteria for death

Evaluation/grading summary

Assignments: 12 module assignments (including labs) weighted at 40%.

Tests: 6 module tests and 1 summative assessment weighted at 60%.