



# COURSE OUTLINE

**Course Name:** Principles of Biology - Part 2

**Course Number:** BIOL 1093

**Number of Credits:** 3.0

**Effective Date:** January 2018

**Course Description:**

This course includes human anatomy and physiology, with emphasis on application to our own bodies. Students become subjects of laboratory sessions will cover: the senses, cardiovascular systems, and kidneys. Other topics explored include reproduction, brain and mind, medical aspects of organ physiology, digestion, muscles and bones, and human development.

Both Biology 1083 and Biology 1093 are required for covering the biology topics contained in high school courses up to and including the Grade 12 level.

Biology 1083 and Biology 1093 can be taken at the same time or in any order.

**School or Centre:**

School of Arts and Sciences

**Year of Study:**

1st Year Post-secondary

**Course History:**

New Course

**Name of Replacing Course (if applicable):**

**Course Pre-requisites (if applicable):**

- Biology 11 or equivalent
- Chemistry 11 or equivalent is recommended
- English 10 or equivalent (English 11 is strongly recommended)
- Math 10 (VCC MATH 0750/0751, Foundations of Math & Precalculus 10, or equivalent)

**Course Co-requisites (if applicable):**

**PLAR (Prior Learning Assessment & Recognition)**

No  Yes (details below):

### **Instructional Strategies:**

Class-based - lecture and small group workshops

### **Course Learning Outcomes:**

Biology Learners will:

- Apply findings from all labs to broader concept of homeostasis
- Develop understanding of the anatomy and physiology involved with maintenance of heart rate, breath rate and blood pressure in the Exercise Lab
- Study the anatomy of a heart and brain through dissection
- Study the overall anatomy of organ systems in the Pig Lab
- Participate in a take home lab that involves basic urine analysis in the Kidney lab
- Identify blood cells

By participating in the lab activities outlined above and studying the background theory inherent in the core topics, students will have the opportunity to:

- Work independently and as part of a team
- Use the scientific method - write a formal lab report, cite references using appropriate format
- Demonstrate familiarity with common lab equipment. Conduct lab procedures safely and ethically.
- Collect, record and analyze data effectively - Communicate results and conclusions
- Demonstrate an awareness of ethical issues relevant to life sciences

### **Program Learning Outcomes:**

N/A

## Evaluation/Grading System

Grading System	Specify if 'Other':	Specify Passing Grade:
Letter Grades		D

## Components and Weighting of the Assessment/Evaluation Plan:

Type	Percentage	Evaluation Plan (provide a brief explanation for each component especially if value exceeds 35%):
Quizzes/Tests	40	2 tests at 20% each
Lab Work	30	approximately 30% for various lab related activities, including at least one formal lab write-up
Assignments	10	approximately 10% for various assignments
Final Exam	20	
<b>Total</b>		<b>100</b>

## Learning Environment/Type

Instruction Type	Hours Per Instruction Type	Comments
L - Classroom	60	classroom and lab
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-		
<b>Total</b>		<b>60</b>

## Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

**Course Topics:**

Nervous System  
The Human Brain  
Senses  
Locomotion (skeleton/muscle physiology)  
Endocrine System  
Circulatory System (heart, blood)  
Respiratory System  
Homeostasis  
Excretion  
Digestion  
Reproduction

## VCC Education and Education Support Policies

There are a number of **Education** and **Education Support** policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

<http://www.vcc.ca/about/governance--policies/policies/>

To find out how this course transfers, visit the BC Transfer Guide at [www.bctransferguide.ca](http://www.bctransferguide.ca).

### FOR COMMITTEE USE ONLY

Approved by Curriculum Committee:	June 20, 2017	Approved by Education Council:	September 12, 2017
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