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## BIOL 1200: Biology 2

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### EFFECTIVE DATE

### DEPARTMENT

UT Sciences  
**DESCRIPTION**

Biology 1200 is the second half of the majors course in general biology, from cells to organisms. Lectures emphasize the integration of cells and the whole organism, and address biological chemistry, cell structure and function, DNA, RNA, and gene expression, homeostasis, animal and plant nutrition, molecular genetics, immunology, and biotechnology. Laboratory activities examine cells, cellular chemistry, genetics, and DNA, including DNA extraction, analysis, sequencing, and forensic techniques. They develop methods of scientific investigation, statistical analysis, collaboration, and reporting. Prerequisite: Biology 11, Biology 12, Chemistry 11, Precalculus 11, all with at least a C+.

### CREDITS

4.0

### YEAR OF STUDY

1st Year Post-secondary

### PREREQUISITES

None

### COREQUISITES

None

### COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Use biological data collecting skills, including use of instrumentation, microscopy, and observation and experimentation, when working in the lab.
- Carry out an integrated series of scientific investigations. Perform experiments, collect, statistically analyze and interpret data, and document report findings.
- Apply scientific concepts and critical evaluation to practical experience as well as controversial societal issues.
- Outline the structure and function of the cell.
- Describe the structure and function of a living body.

- Use terminology that defines concepts in cell and organismal biology.

## PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 60

Lab: 60

## INSTRUCTIONAL STRATEGIES

This course will be a combination of lecture, lab activities, videos and field trips that complement each other.

## GRADING SYSTEM

Letter Grade (A-F)

## PASSING GRADE

D

## EVALUATION PLAN

Type	Percentage	Assessment activity
Exam	60	4 tests at 15% (including lab component)
Assignments	35	2 lab reports at 15%, 1 essay at 5%
Quizzes/Tests	5	

## COURSE TOPICS

- The Biochemical Basis of Life
- Cell Structure and Function
- The Cellular Basis of Plant and Animal Functions
- Plant Physiology
- Animal Physiology
- Homeostatic Mechanisms
- Molecular Genetics and DNA Function
- Immunology
- Biotechnology

## LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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### Broadway campus

1155 East Broadway  
Vancouver, B.C. Canada  
V5T 4V5

### Downtown campus

250 West Pender Street  
Vancouver, B.C. Canada  
V6B 1S9

### Annacis Island campus

1608 Cliveden Avenue  
Delta, B.C. Canada  
V3M 6P1

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**VCC.ca**

Generated at: 6:25 am on Jan. 20, 2021