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## BIOL 0871: Biology 11 Part 2

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### EFFECTIVE DATE

January 2017

### DEPARTMENT

CF - Science

### DESCRIPTION

This course introduces students to the study plants and animals by examining their structures, functions, evolution and environments. Field trips provide students with opportunities to explore local ecology and analyze and interpret data collected. Biology 0861 and Biology 0871 can be taken at the same time or in any order. Both Biology 0861 and Biology 0871 are required for completion of ABE Advanced level Biology.

### CREDITS

4.0

### YEAR OF STUDY

ABE Advanced Level(Grade11)

### PREREQUISITES

MATH 0751, Foundations of Math & Precalculus 10 or equivalent; English 10 or equivalent.

### COREQUISITES

None

### COURSE LEARNING OUTCOMES

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

- Students will meet the learning outcomes for ABE Advanced Level Biology as stated in the most recent ABE Articulation Handbook.

### PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 96

Lab: 96

Other: 96

## INSTRUCTIONAL STRATEGIES

Option 1: Self-paced - one-to-one individualized instruction, field trips and labs Option 2: Class-based - lecture and small group workshops, field trips and labs

## GRADING SYSTEM

Letter Grade (A-F)

## PASSING GRADE

D

## EVALUATION PLAN

Type	Percentage	Assessment activity
Assignments	15	Class-based Option: formal lab report & classification assignment
Field Experience	20	Class-based Option
Quizzes/Tests	65	Class-based Option: 3 tests plus a number of quizzes
Other		OR Self-paced: Assignments 20%, Field Experience 7%, Labs 7%, 4\ntests at 16.5% each.

## COURSE TOPICS

- Classification Systems and Major Taxonomic Groups
  - Levels of Biological Organization
  - Features of Animal Evolution, Variety of Reproductive Strategies
  - Marine & Intertidal Zone Ecology (Aquarium Fieldtrip, Low-Tide Field Trip, & Lab Examination of Living Organisms - class-based only)
  - Identify structures, distinguishing characteristics & life processes for the following:
    - Porifera, Cnidaria,
    - Nematoda, Platyhelminthes, Annelida (worm labs - examine internal/external structures in various phyla)
    - Molluscs, Arthropods, Echinoderms (labs include behavioural & structural examination of variety of

mollusc, arthropod, and/or echinoderm specimens)

- Chordates, Including Origin of the Vertebrates, Fish, Amphibians, Reptiles, Birds (field trip - observe birds in natural setting), & Mammals (lab – comparison of vertebrate skeletons), Origins of Humans Evolution of Plants. Algae (lab - microscopic and other examination of algae), Bryophytes (lab – dissection and examination of moss - class-based only), Ferns (lab – dissection and examination of ferns - class-based only), Gymnosperms, and Angiosperms (cone, fruit and flower lab - class-based only)

## 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  
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