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BIOL 1093: Principles of Biology - Part 2

EFFECTIVE DATE

January 2018

DEPARTMENT

UT Sciences

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.

CREDITS

3.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

• 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)

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- 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
- 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

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 60

INSTRUCTIONAL STRATEGIES

Class-based - lecture and small group workshops

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

D

EVALUATION PLAN

Type	Percentage	Assessment activity
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	

COURSE TOPICS

- Nervous System
 - The Human Brain
 - Senses
 - Locomotion (skeleton/muscle physiology)

Endocrine System
Circulatory System (heart, blood)
Respiratory System
Homeostasis
Excretion
Digestion
Reproduction

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>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
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Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
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Annacis Island campus

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Generated at: 3:15 pm on Apr. 11, 2021