



EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES

A. Division: Science and Technology

Effective Date: **September 2004**

B. Department / Program: Biology
Area:

Revision New Course

If Revision, Section(s) Revised: **C, H, M, P, R**

Date of Previous Revision: **May 2002**

Date of Current Revision: **September 2004**

C: Biology 1203

D: Human Biology II

E: 3

Subject & Course

and physiology of the nervous, excretory, endocrine and reproductive systems are studied. Enrollment is usually limited to students in Health Sciences programs. The anatomy of humans.

G: Allocation of Contact Hours to Type of Instruction / Learning Settings

Primary Methods of Instructional Delivery and/or Learning Settings:

Lecture/Tutorial/Lab

Number of Contact Hours: (per week / semester for each descriptor)

**5 hours/week
(2 hours lecture/1 hour tutorial/2 hours lab)**

Number of Weeks per Semester: **15 weeks**

H: Course Prerequisites:

Biology 1103

I: Course Corequisites:

None

J: Course for which this Course is a Prerequisite

None

K: Maximum Class Size:

**Lecture = 42
Tutorial = 21**

L: PLEASE INDICATE:

- Non-Credit
 College Credit Non-Transfer
 College Credit Transfer:

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)

M: Course Objectives / Learning Outcomes

Upon completion of Biology 1203, the student will be able to:

1. Describe the basic requirements of human nutrition and describe the roles of various nutrients in the body.
2. Describe the fluid and electrolyte composition of the body and explain how fluid and electrolyte balance is maintained.
3. Describe the components of the excretory system and explain the process by which the kidney manufactures urine.
4. Describe the considerations included in a typical urinalysis.
5. Describe the components of the nervous system and identify the roles of the major components of the nervous system and associated sensory organs.
6. Describe the glands of the endocrine system and name and specify the function of all major hormones.
7. Describe the structure and functioning of the male and female reproductive systems.
8. Describe embryonic and fetal development and the changes which take place in the mother during fetal development and lactation.
9. Describe the principles of genetics as they apply to humans and describe the mode of inheritance, and methods of in utero detection of common genetic abnormalities.
10. Describe the structure and functioning of the major mammalian body systems using a dissected fetal pig as a model.

N: Course Content:

1. The major electrolytes of the body will be described. The regulation of the electrolyte composition and the regulation of fluid balance will be discussed.
2. The components of the excretory system will be examined. The functioning of the nephron in the manufacture of urine will be discussed.
3. The organization of the nervous system will be described. The structure and function of the parts of the brain, the spinal cord, the major nerves, and the reflex arc will be discussed. The structure and functioning of the sense organs will be described.
4. The hormones of the endocrine glands will be identified, and the effects of each hormone will be studied.
5. The male and female reproductive structures will be identified and the functioning of the reproductive system will be described.
6. Human embryonic development will be studied. Fetal development, labor and lactation will be studied.
7. The principles of genetics, as they apply to humans, will be examined. Modes of inheritance, common genetic disorders, and amniocentesis will be discussed.
8. Fetal pig dissections will be studied, with particular reference to the respiratory, digestive, cardiovascular, excretory, and reproductive systems.

O: Methods of Instruction

This course involves three hours per week of classroom instruction ao