Division: Science and Technology

Effective Date: September 2003

Department / Program
Area: Biology

Revision [X] New Course [ ]

If Revision, Section(s)
Revised: A,B,F,G,K,O,P,Q

Date of Previous Revision: August 1991

Date of Current Revision: May 2002

Subject & Course No.	Descriptive Title	Semester Credits
Biology 203	: Human Biology II	3

Calendar Description:

Human Biology II is a continuation of the study of the anatomy and physiology of humans. The anatomy and physiology of the nervous, excretory, endocrine and reproductive systems are studied. Enrolment is usually limited to students in Health Sciences programs.

Allocation of Contact Hours to Type of Instruction / Learning Settings

Primary Methods of Instructional Delivery and/or Learning Settings:

Lecture/Tutorial/Lab

ial/2 hours lab)

Number of Weeks per Semester: 14

Course Prerequisites:

Biology 103

Course Corequisites:

None

Course for which this Course is a Prerequisite

None

Maximum Class Size:

Lecture = 42
Tutorial = 21

PLEASE INDICATE

[ ] Non-Credit

[ ] College Credit Non-Transfer

[X] College Credit Transfer:

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

Course Objectives / Learning Outcomes

Upon completion of Biology 203, 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.

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

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