EFFECTIVE: SEPTEMBER, 2008
CURRICULUM GUIDELINES

A. Division: **Education**

Effective Date: **September 2008**

B. Department / Program Area: **Science and Technology**
Biology

Revision [X] New Course [ ]

If Revision, Section(s) Revised: **G, K, M, O, P, Q**

Date of Previous Revision: **March 2006**

Date of Current Revision: **October 2007**

C: **Biology 1209** **D**: **Human Anatomy and Physiology II** **E:** **3**

Subject & Course No.	Descriptive Title	Semester Credits

F: Calendar Description:

Human Anatomy and Physiology II is a continuation of the study of the anatomy and physiology of humans. The anatomy and physiology of the digestive, nervous, excretory, endocrine and reproductive systems are studied.
Enrolment is usually limited to students in Sport Science programs.

G:

mary Methods of Instructional Delivery and/or Learning Settings:

Lecture/Tutorial/Lab

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

6 hours/week:

4 hours lecture / tutorial
2 hours lab

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

H: Course Prerequisites:

Biology 1109

I: Course Corequisites:

None

J: Course

K: Maximum Class Size:

Lecture / Tutorial = 35

L: PLEASE INDICATE**:**

- [ ] Non-Credit
- [ ] College Credit Non-Transfer
- [X] College Credit Transfer

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)

M: Course Objectives / Learning Outcomes

Upon completion of Biology 1209, 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 absorption, transport, storage and metabolic importance of carbohydrates, lipids and proteins.
3. Describe the gross anatomy of the digestive system and describe the digestion of carbohydrates, lipids, and proteins.
4. Describe energy metabolism, including the processes of glycolysis, Krebs Cycle and the electron transport chain.
5. Describe the importance of oxygen in respiration and compare aerobic and anaerobic respiration.
6. Describe the fluid and electrolyte composition of the body and explain how fluid and electrolyte balance is maintained.
7.

P: Textbooks and Materials to be Purchased by Students

Tortora, G.J. and Derrickson, B. ***Principles of Anatomy and Physiology*** (Current Edition). New York: John Wiley and Sons, Inc.

Douglas College produced manual: **Biology 1203/1209: Human Anatomy and Physiology II**.

Q: Means of Assessment

TYPE OF EVALUATION		POINTS
Class Tests and Assignments		20 – 30 %
Laboratory Experiments and Activities (see Note 1 below)		(*up to* –20 %)
Laboratory Examination	- final	10 – 15 %
Comprehensive Examinations	- midterm	25 – 35 %
	- final	25 – 35 %
TOTAL		100

Notes:

1. **Laboratory Experiments and Activities:**

   Laboratory work will be assigned each week. The laboratory work must be completed in the week it is assigned. If more than one lab assignment is not completed, two percentage points will be deducted for each lab assignment (in excess of the one permitted without penalty). **Laboratory experiments and assignments are a compulsory component of this course. A minimum of 50% of the laboratory experiments and assignments must be completed to receive a P or better grade in the course.**

2. **Examinations:**

   There will be one midterm and one final examination. The final examination will cover the entire course. If the student achieves a better grade on the final exam than on the midterm examination, the midterm grade will be raised to equal that achieved on the final examination.

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

There is no provision of PLAR, other than that normally done by examining transcripts and comparing course outlines of human biology courses taken within the last five years elsewhere to the Douglas College Biology 1209 course content.

Course Designer(s) | Education Council / Curriculum Committee Representative

Dean / Director | Registrar