Justice Institute of British Columbia
COURSE OUTLINE

Course Code: BIOL203

Course Title: Human Anatomy and Physiology

Prerequisite Courses: PARA100 – Clinical Sciences and Biology 11 (or equivalent)

School: School of Health, Community and Social Justice

Division/Academy/Centre: Health Sciences Division

Previous Course Code & Title:

Course First Offered: June 2011

# of Credits:	3.0

Course Description:

Human Anatomy and Physiology (BIOL 203) is a continuation of the study of the structural and functional anatomy and physiology of humans that is covered within the PARA100 Clinical Sciences course. This course is designed to allow the student to explore anatomical and physiological details of the endocrine, digestive, urinary, lymphatic, cardiovascular, respiratory, immune, and reproductive systems. Fluid, electrolyte, and acid-base homeostasis and metabolism and nutrition will also be covered. The course will provide the student with a foundation for further courses in pathophysiology and pharmacology.

Course Goal(s):

The goal of this course is to provide the student with in-depth knowledge of the functioning of the human body as a coordinated, homeostatic, reproducing organism while looking at the major human body systems.

Learning Outcomes:

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

1. Recall the key structures and functions of the human body
2. Describe the body's defense against disease and injury
3. Describe the structure and function of the endocrine system
4. Identify components of the endocrine system
5. Describe the structure and function of the cardiovascular system
6. State the function and properties of blood
7. Identify the anatomy of the heart
8. Describe heart valves and circulation of blood
9. Describe cardiac muscle tissue and the cardiac conduction system
10. Describe the structure and function of blood vessels

11. Describe hemodynamics, blood pressure, and blood flow
12. Explain shock and homeostasis
13. Describe the structure and function of the lymphatic system
14. Explain immunity
15. Describe the structure and function of the respiratory system
16. Describe the exchange of oxygen and carbon dioxide
17. State how respiration is controlled
18. Describe the structure and function of the digestive system
19. Identify the components of the digestive system
20. Describe the structure and function of the urinary system
21. Identify the components of the urinary system
22. Describe metabolism and the role of nutrition
23. Describe fluid departments and fluid balance
24. Explain the role of electrolytes in body fluids
25. Explain the acid-base balance
26. Describe the structure and function of the male and female reproductive systems

Course Topics/Content:

- Review of the human body and basic cell processes
- The endocrine system
- The cardiovascular system
- The lymphatic system and immunity
- The respiratory system
- The digestive system
- The urinary system
- Metabolism and nutrition
- Fluid, electrolyte, and acid-base homeostasis
- The reproductive system

Text and Resource Materials:

Required:

Tortora, G. J., & Derrickson, B. (2012). Introduction to the human body: The essentials of anatomy and physiology (9th ed.). Hoboken, NJ: John Wiley & Sons.

Recommended:

Course Level:

	First Year	X	Second Year		Third Year		Fourth Year
	Graduate		Other (describe):				

Equivalent Course(s) within the JIBC:

Class Delivery Methods:

Delivery Methods	Class Option A (Hours)	Class Option B (Hours)	Class Option C (Hours)	Class Option D (Hours)
Classroom/Lecture/Discussion				
Simulation/Lab				
Praxis Exercise				
Practicum/Fieldwork				
Online	42			
Correspondence				
Total Class Hours	42			

Comments on Delivery Methods:

Biology 203 is an online course, and consists of multiple units delivered over a single semester. It is expected that students spend 6 - 9 hours per week to complete all the course requirements. Posting of answers to assignments and discussion among peer learners and the facilitator is a required component of the course.

Course Grading System:

	Letter Grades	X	Percentage		Pass/Fail
	Complete/Incomplete		Attendance Only		

Passing Grade:	60%

Evaluation Activities and Weighting:

Final Exam	20%	Assignments	%	Project	20%	Capstone Project	%
Midterm Exam	30%	Portfolio	%	Participation	20%	Other	%
Quizzes/Test	10%	Simulations	%	Practicum	%	TOTAL	100%

Comments on Evaluation Activities and Weighting:

Midterm and final exams will be timed online examinations.

The project must be submitted electronically.

The participation mark is comprised of interactions with peers and instructors during pre-established times.

The mark on an individual assignment will be reduced by 20% for each day that it is late.

Other Course Guidelines, Procedures and Comments:

Requests for extensions of time to complete assignments and/or tests must be submitted to the instructor at least one week in advance and are only permitted for justifiable reasons. Requests to extend time beyond the last day of the course must be submitted to the Program Manager for approval.

Assignments missed due to medical reasons must be substantiated by a note issued by a qualified health practitioner in order to receive full credit for the assignment.

All course assignments and tests must be completed in order to successfully complete the course.

View official versions of related JIBC academic regulations and student policies in the *JIBC Calendar* on the following pages of the JIBC website:

Academic Regulations:
*http://www.jibc.ca/programs-courses/jibc-calendar/**academic-regulations***

Student Academic Integrity Policy
Academic Progression Policy
Admissions Policy
Academic Appeals Policy
Evaluation Policy
Grading Policy

Student Policies:
http://www.jibc.ca/about-jibc/governance/policies

Access Policy
Harassment Policy – Students
Student Records Policy
Student Code of Conduct Policy

JIBC Core Competencies

The JIBC promotes the development of core and specialized competencies in its programs. Graduates of our programs will demonstrate high levels of competence in the following areas:

Critical thinking
Identify and examine issues and ideas; analyze and evaluate options in a variety of fields with differing assumptions, contents and methods.

Communication, oral and written
Demonstrate effective communication skills by selecting the appropriate style, language and form of communication suitable for different audiences and mediums.

Leadership
Inspire individuals and teams to reach their potential by embracing innovation through strategic thinking and shared responsibility.

Independent learning
Show initiative by acting independently in choosing effective, efficient and appropriate applied learning, research and problem solving strategies.

Globally-Minded
Self-aware of own identity and culture, recognize the interconnectedness of world events and issues; interact respectfully and authentically across cultures; value multiple perspectives; utilize curiosity to learn with and from others.

Problem solving
State problems clearly; effectively and efficiently evaluate alternative solutions; choose solutions that maximize positive and minimize negative outcomes.

Interpersonal relations
Know and manage ourselves; recognize and acknowledge the needs and emotions of others including those with diverse cultures, backgrounds and capabilities.

Inter-professional teamwork
Understand and work productively within and between groups, respect others' perspectives and provide constructive feedback with special attention to inter-professional relationships.

Information literacy
Recognize and analyze the extent and nature of an information need; efficiently locate and retrieve information; evaluate it and its sources critically, and use information effectively and ethically.