

Justice Institute of British Columbia
COURSE OUTLINE

Course Code:	BIOL 203
Course Title:	Human Anatomy and Physiology
Prerequisite Courses:	CS200 – Clinical Sciences 200
School:	School of Health Sciences
Division/Academy/Centre:	
Previous Course Code & Title:	N/A
Course First Offered:	January 2011

# of Credits:	3
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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 Clinical Sciences 200 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. Prerequisite: Clinical Sciences 200 or any 100 level 3-credit introductory Anatomy and Physiology course.

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:

- Recall the key structures and functions of the human body
- Describe the body's defense against disease and injury
- Describe the structure and function of the endocrine system
- Identify components of the endocrine system
- Describe the structure and function of the cardiovascular system
- State the function and properties of blood
- Identify the anatomy of the heart
- Describe heart valves and circulation of blood

- Describe cardiac muscle tissue and the cardiac conduction system
- Describe the structure and function of blood vessels
- Describe hemodynamics, blood pressure, and blood flow
- Explain shock and homeostasis
- Describe the structure and function of the lymphatic system
- Explain immunity
- Describe the structure and function of the respiratory system
- Describe the exchange of oxygen and carbon dioxide
- State how respiration is controlled
- Describe the structure and function of the digestive system
- Identify the components of the digestive system
- Describe the structure and function of the urinary system
- Identify the components of the urinary system
- Describe metabolism and the role of nutrition
- Describe fluid departments and fluid balance
- Explain the role of electrolytes in body fluids
- Explain the acid-base balance
- 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, Gerald, Derrickson, Bryan. (2010). *Principles of Anatomy and Physiology 8th edition*. John Wiley and Sons. Inc. USA.

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				
Practicum/Fieldwork				
Online	42			
Correspondence				
Total Class Hours	42			

Comments on Delivery Methods:
Course Grading System:

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

Passing Grade:	60%
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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.

Other Course Guidelines, Procedures and Comments:

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/programs-courses/jibc-calendar/student-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.

Problem solving

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

Communication, oral and written

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

Interpersonal relations

Know and manage oneself; recognize and acknowledge the needs and emotions of others including those with diverse backgrounds and capabilities.

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.

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.