

Justice Institute of British Columbia
COURSE OUTLINE

Course Code: PARA100
Course Title: Clinical Sciences
Prerequisite Courses: : JIBC Emergency Medical Responder (EMR100) or (EMR120) or equivalent
School: School of Health, Community and Social Justice
Division/Academy/Centre: Health Sciences Division-Paramedic Academy
Previous Course Code & Title: CS200 - Clinical Sciences 200
Course First Offered: August 2013

# of Credits:	3.0
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Course Description: In the Clinical Sciences course learners will build a strong foundational knowledge in human anatomy and functionality, which is vital to their success in the study of paramedicine. Together, the use and understanding of medical terminology, anatomy and physiology, and the principles of pathophysiology (the body's response to disease and injury) form the framework on which the learners' successful practice of paramedicine is built.

Course Goal(s): The goal of this course is to develop the necessary foundational knowledge in the use and understanding of medical terminology, anatomy, physiology, and pathophysiology to continue studies at the Primary Care Paramedic (PCP) level.

Learning Outcomes:

- Demonstrate the use of medical terminology in oral and written communications;
- Describe the structural anatomy and basic physiology of human body systems;
- Relate the general principles of pathophysiology to the body's response to disease and injury; and
- Describe the body's defense against disease and injury.

Course Topics/Content:

- Structure and function of the normal cell
- Anatomy and physiology of the integumentary system
- Anatomy and physiology of the hematopoietic system
- Anatomy and physiology of the musculoskeletal system
- Anatomy and physiology of the nervous system
- Anatomy and physiology of the endocrine system
- Anatomy and physiology of the cardiovascular system
- Anatomy and physiology of the respiratory system
- Anatomy and physiology of the gastro-intestinal system
- Anatomy and physiology of the genitourinary system
- Homeostasis
- Medical terminology
- Principles of pathophysiology

- Cellular adaptation, injury and death

Text and Resource Materials:

Required:

1. Bledsoe, B.E et al. (2006). *Essentials of Paramedic Care, Canadian Edition, Vol. 1 & 2.* Toronto, ON: Pearson Education Inc.
2. Other online resources and readings provided through the Blackboard LMS.

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:

The Clinical Sciences course is delivered online using a discussion forum, assignments, case studies, and online flashcards to reinforce and aid the retention of the course material. An online facilitator will provide focus during the course to assist students in meeting the course objectives.

This online course is delivered over four weeks. It is expected that students spend a minimum of 10 hours per week to complete all of the course requirements.

Note: In addition to the hours specified above, learners will be required to complete a written examination. This exam will be conducted during the Fundamentals of Paramedical Care 1 course.

Course Grading System:

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

Passing Grade:	75%
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Evaluation Activities and Weighting:

Final Exam	80%	Assignments	10%	Project	%	Capstone Project	%
Midterm Exam	%	Portfolio	%	Participation	10%	Other	%
Quizzes/Test	%	Simulations	%	Practicum	%	TOTAL	100%

Comments on Evaluation Activities and Weighting:

Evaluation for this course includes a Final Written Exam. Due to the short duration of this course, a midterm exam will not provide adequate study time to properly prepare students for success. As such, the Final Written Exam, weighted at 80%, covers material from the entire course. Learners will sit this Final Written Exam during PARA200 Fundamentals of Paramedical Care 1 to ensure adequate preparation time.

In addition to the overall passing grade, students must achieve a grade of 75% or higher on the Final Exam in order to pass the course.

Retests:

Students who receive a grade below 75% on an exam may be provided with the opportunity to complete one retest per failed exam. If a student does not achieve a grade of 75% or higher on a retest they may be required to withdraw from the program (see SOHS Program Procedures: Academic Progress for more information).

Late assignments will not be accepted for marking without prior permission of the Regional Training Coordinator. Students may only complete missed assignments, quizzes, projects or exams at the discretion of the Regional Training Coordinator.

Other Course Guidelines, Procedures and Comments:

Students must maintain a 90% overall attendance, and must be present for all examinations as well as specified learning activities, such as field trips or specialty days.

PCP Program Procedures

<http://jibc.ca/programs-courses/schools-departments/school-health-sciences/paramedic-academy/programs/primary-care-paramedic>

These documents are located in the "Policy and Procedures" drop down menu located at the bottom of the above noted page.

- Program Evaluation Policy
- Program Grading Policy
- Program Academic Progression Policy

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.

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.

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 oneself; recognize and acknowledge the needs and emotions of others including those with diverse 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.