

Justice Institute of British Columbia COURSE OUTLINE

Course Code:	PARA200
Course Title:	Fundamentals of Paramedical Care 1
Prerequisite Courses: :	PARA100 Clinical Sciences (completion of online component)
School:	School of Health, Community and Social Justice
Division/Academy/Centre:	Health Sciences Division-Paramedic Academy
Previous Course Code & Title:	F210 - Fundamentals of Prehospital Care 210; CS220 Core Skills 220; CS221 Core Skills 221
Course First Offered:	August 2013

# of Credits:	6.0
----------------------	------------

Course Description: This course will cover three topic areas: the paramedic's profession; principles of pharmacology; and core paramedical skills.

Firstly, learners will explore the paramedical world: from the roles and responsibilities of a professional paramedic to elements of professional paramedical practice. In the context of teamwork, learners will develop communication skills; apply stress management strategies; practice safe lifting and transferring techniques; and demonstrate the proper use and maintenance of ambulance equipment. Integrated throughout will be the practice of safe and self-protective methodology so critical to a healthy career in paramedicine.

Secondly, exploration of the principles of pharmacology and the maintenance of fluid and electrolyte balance and perfusion provide the context for learners as they become proficient in drug administration and intravenous therapy.

Thirdly, assessing and managing life- and limb-threatening injuries and conditions are the core skills of paramedical care. In this course, learners will gain the practical skills, knowledge, and problem-solving abilities needed to efficiently identify, assess and manage critical airway, breathing, and circulation issues. Learners will acquire and practice skills using Primary Care Paramedic (PCP) equipment to quickly intervene and manage patients with compromised airways, in respiratory distress and respiratory arrest, and with life-threatening external hemorrhage. Not only are these the core assessment and management skills that save patients' lives and limbs, they are also the building blocks for the proficient assessment and management of all medical and trauma patients. Finally, learners will be immersed in professional documentation, record-keeping, and reporting.

Course Goal(s): The goals of this course are to:

- Introduce the learner to paramedical care, life as a paramedic, and the concepts and skills required to function as a team member with a paramedic partner.
- Provide learners with the skills, knowledge and judgment to organize, prioritize, intervene, manage, and document life- and limb-threatening injuries and conditions using Primary Care Paramedic treatments and protocols.

Learning Outcomes:

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

- The Paramedic's Profession
 - Define the field of paramedical care
 - Identify the roles and responsibilities of a paramedic
 - Indicate how to deal with the media
 - Define elements of professional practice as a paramedic
 - Describe how to manage personal stress and maintain one's own well-being
 - Illustrate key elements of the communication process and demonstrate the use of effective communication skills
 - Apply the selection and safe use of common lifts, transfers, lifting devices and stretchers
 - Demonstrate the use and maintenance of ambulance equipment
 - Outline the use of radio equipment, policies and procedures
 - Describe how to maintain and operate an ambulance and its equipment
 - Describe the role of the paramedic partner as driver
 - Demonstrate emergency and defensive driving techniques in a simulated setting
 - Discuss issues involving occupational health and safety and WHMIS
 - Describe the pathophysiology, risks and principles of managing patients with communicable diseases
 - Differentiate the use of universal precautions and personal protective equipment in the pre-hospital and allied health care setting.
- Principles of Pharmacology
 - Relate the principles of pharmacology to the administration of PCP medications
 - Discuss the pathophysiology of maintaining fluid and electrolyte balance and perfusion
- Core Paramedical Skills:
 - Describe the principles of call management
 - Describe the use of a clinical decision-making process to identify a range of likely differentials, and infer an interim diagnosis based on key features found or ruled out in each component of the Patient Assessment Model
 - Perform an organized and prioritized patient assessment, using the Paramedic Academy Patient Assessment Model
 - Demonstrate the use of oxygen therapy equipment, procedures and administration
 - Assess and manage patients, integrating Primary Survey interventions and PCP equipment and procedures with the Paramedic Academy Patient Assessment Model
 - Assess and maintain patient's airway using PCP equipment, skills and procedures
 - Assess and maintain a patient's breathing using PCP equipment, skills and procedures
 - Assess and manage bleeding using PCP equipment, skills and procedures
 - Adapt patient assessment procedures to account for age, setting and situation of the patient
 - Demonstrate effective documentation, record keeping, and giving and receiving reports

Course Topics/Content:

- Anatomy and Physiology Review
- Medical Terminology Review
- Professionalism
- Wellness and Stress Management
- Life as a Paramedic
- Communication Skills
- Documentation & EMS and the Law
- Lifts and Transfers
- Equipment and Ambulance Orientation
- Radio Communications
- Orientation to Driving
 - Emergency Vehicle Drivers Regulations (EVDR) Course*
- Driver's Role
- Occupational Safety & Health
 - Communicable Diseases
- Fluids and Electrolytes
- Principles of Call Management
- Introduction to Clinical Decision Making and Differential Diagnosis
- Patient Assessment Model
- Patient Assessment: The Rescue Scene
- Patient Assessment - The Primary Survey
- Primary Survey Interventions
 - Spinal Management
 - Oxygen Therapy
 - Airway Management
 - Breathing Management
 - Hemorrhage Management
- Patient Assessment - the Secondary Survey
 - History
 - Vital Signs
 - Physical Assessment
- Documentation, Records, and Reports

*EVDR is a JIBC stand-alone online course learners are required to complete.

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. Paramedic Academy, *Training, Treatment and Protocol Manual*. (Revised 2013). Provided online with the cost of tuition. A paper-based version is available for purchase.
3. Paramedic Academy, *Classroom Logbook*. (Revised 2013). Supplied by the Paramedic Academy as part of the course tuition.
4. Kovacs, G., and Law, A.J. (2008.) *Airway Management in Emergencies. Rescue Oxygenation*. Pp. 128-139. New York: McGraw Hill. (Provided online in Blackboard.)
5. 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	49	7		
Simulation/Lab	35	28		
Praxis Exercise				
Practicum/Fieldwork				
Online		49		
Correspondence				
Total Class Hours	84	84		

Comments on Delivery Methods:

The Fundamentals of Paramedical Care 1 course is delivered by experienced practitioners that work in pre-hospital and allied health care settings.

Note: In addition to the hours specified above, learners will be required to spend further classroom time on evaluation of skills and a written examination.

Course Grading System:

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

Passing Grade:	75%
-----------------------	-----

Evaluation Activities and Weighting:

Final Exam	40%	Assignments	30%	Project	20%	Capstone Project	%
Midterm Exam	%	Portfolio	%	Participation	10%	Other	%
Quizzes/Test	%	Simulations	%	Practicum	%	TOTAL	100%

Comments on Evaluation Activities and Weighting:

In addition to the Evaluation Activities, students are required to competently perform, document, and submit to an electronic tracking system all related mandatory skills (S or Simulation competencies) set out by the Paramedic Association of Canada (PAC) and accredited by the Canadian Medical Association (CMA).

Students are required to complete the stand-alone online JIBC course, Emergency Vehicle Driving Regulations, with a passing grade on the Final Written Exam of 75%. Access to this course will be provided as part of the PARA200 course.

In addition to the overall passing grade, students must achieve a grade of 75% or higher on the Final Exams 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.

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.

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.

Independent learning

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

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.