

Justice Institute of British Columbia
COURSE OUTLINE

Course Code: PHARM215

Course Title: Pharmacology 215

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 2009

# of Credits:	3.0
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Course Description:

Pharmacology 215 is designed to allow health care professionals to build a comprehensive understanding of the principles of pharmacology, the characteristics and use of drugs, drug interactions, and common medication profiles.

The course provides health care professionals with a common, comprehensive understanding of the key principles of pharmacology and drug administration.

The course reviews and reinforces all required competencies for pharmacology for both Primary Care Paramedics and Advanced Care Paramedics as specified in the National Occupational Competency Profile from the Paramedic Association of Canada. However, the course reaches beyond pre-hospital care to consider the broader field of pharmacology.

Course Goal(s):

The goal of Pharmacology 215 is to develop a comprehensive understanding of the key principles of pharmacology, discuss the characteristics and use of drugs used for various body systems, and recognize and apply common medication profiles.

Learning Outcomes:

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

1. Describe the key principles of medicinal chemistry, drug development, pharmacokinetics, and pharmacodynamics
2. Outline legal aspects of pharmacology
3. Describe and discuss principles of drug administration, drug dosage calculations, and sterile technique
4. Demonstrate the use of common sources (e.g. CPS) to obtain information on drugs
5. Describe the characteristics and use of drugs that affect the ANS, CNS, cardiovascular system, respiratory system, musculoskeletal system, GI/GU system, liver and kidney, integumentary system, and endocrine system

6. Describe the characteristics and use of drugs for antinfectives, poisoning and overdose, analgesics, chemotherapy and oncology
7. Describe the characteristics and use of drugs for special populations including pediatrics, geriatrics, pregnancy and lactation, avid athletes, obesity, and anorexia
8. Interpret common medication profiles and apply the information to ensure safe medication use
9. Recognize the importance of Medication Reconciliation and steps that help prevent common drug issues

Course Topics/Content:

- Introduction to Pharmacology
- Drug Development, Treatment and Legislation
- The ***Compendium of Pharmaceuticals and Specialties***
- Drug Administration
- Drugs Affecting the Autonomic and Central Nervous Systems
- Drugs Affecting the Cardiovascular System
- Drugs Affecting the Respiratory System
- Drugs affecting the Genitourinary and Gastrointestinal Systems
- Drugs Affecting the Musculoskeletal System
- Drugs Affecting the Endocrine System / Anti-infectives
- Toxicology and Analgesics
- Special Populations, Oncology and Drug Interactions

Text and Resource Materials:

Required:

Provided with course registration:

Course pack readings (provided to students)

Students required to purchase:

- Clark, M. A. (2012). Lippincott's illustrated reviews: Pharmacology (5th ed.). Baltimore, MD: Wolters Kluwer Health/Lippincott Williams & Wilkins.
- Lynn, P. B., & Evans-Smith, P. (2008). Lippincott's photo atlas of medication administration (3rd ed.). Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins.

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:

Pharmacology 215 is an online course, and consists of 12 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%
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Evaluation Activities and Weighting:

Final Exam	40%	Assignments	20%	Project	%	Capstone Project	%
Midterm Exam (1)	20%	Portfolio	%	Participation	%	Other	%
Midterm Exam (2)	20%	Simulations	%	Practicum	%	TOTAL	100%

Comments on Evaluation Activities and Weighting:

Online discussions/case studies are part of overall mark for assignments.

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.