



Pharmacology 1 – PPNP 106 Practical Nursing Program

Course Outline

COURSE IMPLEMENTATION DATE: September 2012
OUTLINE EFFECTIVE DATE: September 2018
COURSE OUTLINE REVIEW DATE: March 2023

GENERAL COURSE DESCRIPTION:

This introductory course examines the principles of pharmacology required to administer medications in a safe and professional manner. Medication administration requires the application of the nursing process for clinical decision making. Various routes of medication administration are introduced, and complementary, Indigenous, alternative remedies and polypharmacy across the lifespan are also explored.

Program Information: This course is one of eight courses required in Level 1 of the Practical Nursing program. Satisfactory completion of this course is required to progress to the next level.

Delivery: This course is delivered face to face.

COTR Credits: 2

Hours for this course: 30 hours

Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	30
Seminars / Tutorials	
Laboratory / Studio Hours	
Practicum / Field Experience Hours	
Other Contact Hours	
Total	30

Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-job Experience	N/A
Formal Work Experience	N/A
Other	N/A
Total	

Course Outline Author or Contact:

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Signature

APPROVAL SIGNATURES:

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Department Head Signature

Dean Signature

EDCO

Valid from: September 2018 – March 2023

Education Council Approval Date

COURSE PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: PPNP 101 with a minimum grade of 65% or equivalent.

Corequisites: PPNP 104, 105, 107

Flexible Assessment (FA):

Credit can be awarded for this course through FA Yes No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

Transfer Credit: For transfer information within British Columbia, Alberta and other institutions, please visit <http://www.cotr.bc.ca/Transfer>.

Students should also contact an academic advisor at the institution where they want transfer credit.

Prior Course Number: PNUR 105 ⇔⇔ PPNP 106

Date changed: September 2012

Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

BCCNP: Current British Columbia College of Nursing Professions (BCCNP) documents.

Clayton, B. D., & Willihnganz, M. J. (2017). *Basic pharmacology for nurses* (17th ed.). St. Louis, MO: Elsevier Saunders.

Karch, A. M. (2015). *Lippincott nursing drug guide*. Philadelphia, PA: Lippincott Williams & Wilkins.

Potter, P. A. & Perry, A. (2014). *Canadian fundamentals of nursing*. (5th ed.). Toronto, ON: Elsevier Canada.

Please see the instructor's syllabus or check COTR's online text calculator <http://go.cotr.bc.ca/tuition/tCalc.asp> for a complete list of the currently required textbooks.

LEARNING OUTCOMES:

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

- describe the responsibility of the LPN in administration of medication;
 - explain how drug standards and the legislation affect drug regulation in Canada;
 - explain the purpose of the Canadian drug laws and their application to nursing practice;
 - describe the concepts of pharmacodynamics and pharmacokinetics;
 - identify basic terminology used in pharmacology;
 - describe the principles of pharmacology as related to common drug actions and interactions;
 - demonstrate competency with basic mathematical drug calculations;
 - identify commonly used drug classification systems in Canada;
 - explain the principles of medication administration;
 - describe the routes of medication administration;
 - apply the nursing process as it relates to medication administration;
 - identify various classes of medications used to treat specific disorders/illness; and
 - identify complementary, Indigenous and alternative therapies.
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COURSE TOPICS:

- Introduction to pharmacology
- The LPN role and legal responsibilities of medication administration
- Pharmacodynamics
- Pharmacokinetics
- Drug actions and interactions
- Drug classifications according to body systems
- Principles of medication administration
- Drug distribution systems
- Basic terminology used in pharmacology
- Nursing process and pharmacology

- Routes of medication administration:
 - Oral
 - Rectal
 - Topical
 - Parenteral
 - Percutaneous
- Introduction to complementary, Indigenous and traditional healing alternatives
- Vitamin Supplements
- Herbal Preparations
- Homeopathy
- Basic medication dosage calculations
- Polypharmacy across the lifespan

See instructor's syllabus for the detailed outline of weekly readings, activities and assignments.

EVALUATION AND ASSESSMENT:

Math Exam – Based on drug dosage calculations, students must achieve 100% to pass, and will be given 3 attempts to achieve 100% (different exam each time).

Theory Exams – Learners must achieve an overall average of 80% on the theory portion of pharmacology. One rewrite will be available to replace the lowest achieved exam mark. Maximum grade assigned after a rewrite will be 80%.

EVALUATION AND ASSESSMENT:

Assignments	% Of Total Grade
Assignment	10%
Quiz 1	30%
Quiz 2	30%
Final Comprehensive Exam	<u>30%</u>
Total	100%

Please see the instructor's syllabus for specific classroom policies related to this course, such as details of evaluation, penalties for late assignments and use of electronic aids.

Student Attendance/Absence

- As adult learners, students are expected to attend all classes. Attendance is taken as a means of monitoring student success. In the event of illness or other unavoidable cause of absence, the student should notify the appropriate instructor as soon as possible.
- Students must attend all clinical/preceptorship experiences. If illness or other unavoidable absence occurs, the student must notify the appropriate instructor prior to the time s/he is expected.
- Unexcused/excessive absences from clinical/preceptorship may mean students must withdraw from the program.

Written Assignments

- Assignments about clients must be written using the clients' INITIALS ONLY.
 - A 15% penalty will be applied for each day past due date for late assignment submissions. If any assignment is more than three (3) days late it will be assigned a grade of "0".
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EXAM POLICY:

Students must attend all required scheduled exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the scheduled exam.

Any student who misses a scheduled exam without approval will be given a grade of "0" for the exam.

COURSE GRADE:

Course grades are assigned as follows:

Grade	A+	A	A-	B+	F
Mark (Percent)	≥ 95	94-90	89-85	84-80	< 80

ACADEMIC POLICIES:

See www.cotr.bc.ca/policies for general college policies related to course activities, including grade appeals, cheating and plagiarism.

COURSE CHANGES:

Information contained in course outlines is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment and marketing needs. The instructor endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add or delete material from courses.

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