

**PNUR 119: PHARMACOLOGY 1 (30 HOURS)**

**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. The routes of medication administration introduced include medications used to treat constipation, eye and ear disorders and the integumentary system. Complementary, Indigenous and alternative remedies, and polypharmacy across the lifespan are explored.

**PRE-REQUISITES:** Admission to the Practical Nursing Program

**CO-REQUISITES:** Professional Communication 1; Integrated Nursing Practice 1; Variations in Health 1; Health Promotion 1; Professional Practice 1.

**LEARNING OUTCOMES**

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

1. Describe the responsibility of the LPN in administration of medication.
2. Explain how drug standards and the drug legislation affect drug regulation in Canada.
3. Explain the purpose of the Canadian Drug Acts and their application to nursing practice.
4. Describe the concepts of pharmacodynamics and pharmacokinetics.
5. Identify basic terminology used in pharmacology.
6. Describe the principles of pharmacology as related to common drug actions and interactions.
7. Demonstrate competency with basic mathematical drug calculations.
8. Identify commonly used drug classification systems in Canada.
9. Explain the principles of medication administration.
10. Describe the routes of medication administration.
11. Apply the nursing process as it relates to medication administration.
12. Identify various classes of medications used to treat specific disorders/illness.
13. Identify complementary, Indigenous, and alternative therapies.

## PN Course Outlines

### EVALUATION CRITERIA

**Note: learners must achieve an 80% average overall on the theory portion of pharmacology**

Quiz #1	25%
Math Exam	COM/NC
Quiz #2	25%
Final Exam	40%
Medication Cards	10%

- Pharmacology Theory Quiz #1, (*Learning outcomes #1-3*)
- Math Exam -- based on drug dosage calculations, must achieve a 100% pass, given 3 attempts to achieve 100% (different exam each attempt). (*Learning outcome #7*)
- Pharmacology Theory Quiz #2, (*Learning outcomes #1-6*)
- Pharmacology Theory Comprehensive Final exam, (*All learning outcomes*)
- Medication Cards: 10 cards will be submitted for each assigned medication, two due at the beginning of class each week from weeks 5 – 10. Cards will be graded for completeness, clarity and organization. Late submissions will not be accepted. Must include: Drug name (generic and brand names), classification, uses, dosage, most common or dangerous side effects, administration considerations and nursing responsibilities.

## PN Course Outlines

### COURSE OUTLINE

<b>CLASS #</b>	<b>TOPICS</b>
1	Nursing and Pharmacology
2	Math calculations
3	Principles of Pharmacology
4	<b>Exam #1</b>
5	Drug Classifications
6	Principles and routes of medication administration
7	Safe Medication Practices
8	<b>Exam #2</b>
9	Nursing process and medications for specific disorders
10	Complementary, Indigenous and alternative remedies
11	Content review
12	<b>Final comprehensive exam</b>