UNIVERSITY OF THE FRASER VALLEY

ORIGINAL COURSE IMPLEMENTATION DATE: September 2012
REVISED COURSE IMPLEMENTATION DATE: September 2019
COURSE TO BE REVIEWED (six years after UEC approval)**:** March 2025
Course outline form version: 10/27/2017

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: PNUR 145	**Number of Credits:** 2.0 Course credit policy (105)

Course Full Title: Pharmacology I
Course Short Title:
(Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)

Faculty: Faculty of Health Sciences	**Department (or program if no department):** School of Health Studies, Practical Nursing

Calendar 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. Complementary, Indigenous, and alternative remedies and polypharmacy across the lifespan are also explored.

Prerequisites (or NONE):	Admission to the Practical Nursing diploma and PNUR 147.
Corequisites (if applicable, or NONE):	PNUR 140, PNUR 141, PNUR 142, PNUR 143, and PNUR 144.
Pre/corequisites (if applicable, or NONE):	None

Antirequisite Courses *(Cannot be taken for additional credit.)*
Former course code/number:
Cross-listed with:
Dual-listed with:
Equivalent course(s):
(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar hours	27
Tutorials/workshops	
Supervised laboratory hours	3
Experiential (field experience, practicum, internship, etc.)	
Supervised online activities	
Other contact hours:	
Total hours	**30**

Labs to be scheduled independent of lecture hours: ☐ No ☐ Yes

Special Topics
This course is offered with different topics:
☒ No ☐ Yes *(Double-click on box to select it as checked.)*
If yes, different lettered courses may be taken for credit:
☐ No ☐ Yes, repeat(s) ☐ Yes, no limit
(The specific topic will be recorded when offered.)

Transfer Credit
Transfer credit already exists: *(See **bctransferguide.ca**.)*
☐ No ☒ Yes
Submit revised outline for rearticulation:
☐ No ☐ Yes *(If yes, fill in transfer credit form.)*

Grading System
☒ Letter Grades ☐ Credit/No Credit

Expected Frequency of Course Offerings:
Every fall

Department / Program Head or Director: Hannah Macdonald	**Date approved:**	October 2018
Faculty Council approval	**Date approved:**	November 5, 2018
Dean/Associate VP: Alastair Hodges	**Date approved:**	November 5, 2018
Campus-Wide Consultation (CWC)	**Date of posting:**	n/a
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	March 1, 2019

Learning Outcomes:

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

1. Describe the responsibility of the LPN in the administration of medication.
2. Explain how drug standards and 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 distribution 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.

Prior Learning Assessment and Recognition (PLAR)

☐ Yes ☐ No, PLAR cannot be awarded for this course because

Typical Instructional Methods *(Guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion.)*

Lecture, guest lecture, simulation lab practice, videos, small group work

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials *(If more space is required, download Supplemental Texts and Resource Materials form.)*

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.		PNUR 145 Course Pack	☐		

Typical Evaluation Methods and Weighting

Final exam:	40%	Assignments:	%	Field experience:	%	Portfolio:	%
Quiz #1	30%	Project:	%	Practicum:	%	Other:	%
Quiz #2	30%	Lab work:	%	Shop work:	%	Total:	100%

Details (if necessary):

Math written exam — Based on drug dosage calculations, must achieve 100% to pass. Students are given 3 attempts to achieve 100% with a different exam each attempt.

Typical Course Content and Topics

Course outcomes will be met through examination and exploration of the following:

- 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 (across the lifespan)
- Polypharmacy across the lifespan