



COURSE OUTLINE: PNG234 - PHARMACOLOGY I

Prepared: Barbara Thompson

Approved: Bob Chapman, Chair, Health

Course Code: Title	PNG234: PHARMACOLOGY I
Program Number: Name	3024: PRACTICAL NURSING
Department:	PRACTICAL NURSING
Semesters/Terms:	19F
Course Description:	This course introduces the learner to the concepts of pharmacology as selected drug groups are studied. The course will emphasize the role and responsibilities of the practical nurse in the administration and monitoring of client medications.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Prerequisites:	PNG111, PNG121, PNG127, PNG130, PNG131
Corequisites:	PNG233, PNG236, PNG238
This course is a pre-requisite for:	PNG250, PNG252, PNG253
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>3024 - PRACTICAL NURSING</p> <p>VLO 1 Communicate therapeutically with clients and members of the health care team.</p> <p>VLO 2 Assess clients across the life span, in a systematic and holistic manner.</p> <p>VLO 3 Plan safe and competent nursing care, based upon a thorough analysis of available data and evidence-informed practice guidelines.</p> <p>VLO 4 Select and perform nursing interventions using clinical judgment, in collaboration with the client and, where appropriate, the health care team, that promote health and well-being, prevent disease and injury, maintain and/or restore health, promote rehabilitation, and/or provide palliation.</p> <p>VLO 5 Evaluate the outcomes resulting from all interventions in the nurse-client interaction and modify the plan of care as required.</p> <p>VLO 6 Act equitably and justly with clients and members of the health care team.</p> <p>VLO 7 Adapt to a variety of health care settings, using different leadership skills and styles as appropriate to each setting.</p> <p>VLO 9 Practise in a self-regulated, professional and ethical manner, complying with relevant legislation and with the standards of both the regulatory body and the practice setting to provide safe and competent client care.</p>
Essential Employability Skills (EES) addressed in this course:	<p>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 3 Execute mathematical operations accurately.</p>



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- EES 4 Apply a systematic approach to solve problems.
- EES 5 Use a variety of thinking skills to anticipate and solve problems.
- EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.
- EES 11 Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 60%, C

Books and Required Resources:

Davis`s Canadian Drug Guide for Nurses by April Hazard Vallerand & Cynthia A. Sanoski
 Publisher: F. A. Davis Edition: 16th ed. Canadian Edition
 ISBN: 9780803669468

Pharmacology for Canadian Health Care Practice by Lilley, Rainforth Collins, & Snyder
 Publisher: Elsevier - Health Sciences Division Edition: 3rd Canadian edition
 ISBN: 9781927406687

Study Guide for Pharmacology for Canadian Health Care Practice by Lilley, Rainforth collins, Snyder, & Swart
 Publisher: Elsevier Canada Edition: 3rd
 ISBN: 9781771720014

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Relate the principles of basic pharmacological theory to the nursing process and the administration of medications.	1.1 Apply the nursing process to the administration of medications across the lifespan. 1.2 Define the common terms used in the study of pharmacology. 1.3 Apply the common terms used in pharmacology including the concepts of pharmaceutics, pharmacokinetics, pharmacodynamics and pharmacotherapeutics. 1.4 Discuss the lifespan considerations associated with medication administration (including pregnant women, breastfeeding, infants, children and older adults). 1.5 Incorporate Canadian legislation which governs the administration of medication (including the Food and Drug Act and the Controlled Substance Act). 1.6 Discuss the impact of medication errors and the process involved in reporting a medication error. 1.7 Discuss the importance of patient education as a component of medication administration including prescription medications, over the counter medications and natural health products.
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Explain the action, therapeutic indications and nursing responsibilities of select medication classifications.	2.1 Analgesic agents (non-opioids, opioids, partial opioid agonists and opioid antagonists). 2.2 Non-steroidal anti-inflammatory agents. 2.3 General/local anesthetic agents and moderate sedation. 2.4 Antibiotic agents. 2.5 Antifungal agents. 2.6 Antiviral agents. 2.7 Discuss medications that directly affect the respiratory system including antihistamines, decongestants, antitussives, expectorants, bronchiodilators and other inhaled medications. 2.8 Discuss medications that directly affect the cardiovascular



	<p>system including select medications used in the treatment of uncomplicated arrhythmias, heart failure, chest pain, hypertension, fluid overload, hypotension and shock, hematological disease and hypercholesterolemia.</p> <p>2.9 Discuss medications that directly affect the gastrointestinal system including acid control agents, antidiarrheals, laxatives, antiemetics and antinausea agents.</p> <p>2.10 Discuss medications that directly affect the integumentary system (e.g. topical medications).</p> <p>2.11 Discuss the nursing responsibilities associated with medications that alter fluid and electrolyte balance.</p>
Course Outcome 3	Learning Objectives for Course Outcome 3
3. Apply provincial nursing legislation and standards which impact medication administration and nursing care.	<p>3.1 Discuss the College of Nurses of Ontario's Medication Standard (revised 2019).</p> <p>3.2 Describe the College of Nurses of Ontario's Decision Tree: Deciding about medication administration.</p> <p>3.3 Discuss the ethical principles associated with medication administration.</p> <p>3.4 Describe the role of effective communication as a component of safe medication administration.</p> <p>3.5 Explain the Registered Practical Nurse's accountability in supervising Unregulated Care Providers who administer medications.</p> <p>3.6 Compare the role of the Practical Nurse versus the role of the Registered Nurse in the administration of medications.</p> <p>3.7 Discuss the knowledge of pharmacology and principles of safe medication practice.</p>
Course Outcome 4	Learning Objectives for Course Outcome 4
4. Apply basic math skills required to safely administer medications in the clinical setting to clients across the lifespan.	<p>4.1 Perform basic drug calculations across the lifespan.</p> <p>4.2 Perform advanced drug calculations across the lifespan.</p>

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
1. Test #1	30%
2. Test #2	30%
3. Final Exam	40%

Date:

December 13, 2019

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.