



## COURSE OUTLINE: PNG250 - PHARMACOLOGY II

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Approved: Bob Chapman, Chair, Health

<b>Course Code: Title</b>	PNG250: PHARMACOLOGY II
<b>Program Number: Name</b>	3024: PRACTICAL NURSING
<b>Department:</b>	PRACTICAL NURSING
<b>Semesters/Terms:</b>	19W
<b>Course Description:</b>	This course builds upon the concepts presented in PNG234 (Pharmacology I) and introduces additional select medication classifications as they relate to individuals experiencing illnesses/medical situations across the lifespan. The learner will study the mechanism of action, therapeutic indications and nursing responsibilities (including drug monitoring and management of adverse drug effects). In addition, this course will emphasize common medication dosages, drug calculations, nursing legislation and standards and health teaching. Furthermore, this course will detail the professional implications of medication administration, as learners prepare for their pre-graduate experience. This course is comprised of in-class lecture (theory), which provides the learner the opportunity to discuss all pharmacologic concepts.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<b>Prerequisites:</b>	PNG233, PNG234, PNG236, PNG238
<b>Corequisites:</b>	PNG251, PNG252, PNG253
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<b>3024 - PRACTICAL NURSING</b>
<b>Please refer to program web page for a complete listing of program outcomes where applicable.</b>	VLO 1 Communicate therapeutically with clients and members of the health care team.
	VLO 2 Assess clients across the life span, in a systematic and holistic manner.
	VLO 3 Plan safe and competent nursing care, based upon a thorough analysis of available data and evidence-informed practice guidelines.
	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.
	VLO 5 Evaluate the outcomes resulting from all interventions in the nurse-client interaction and modify the plan of care as required.
	VLO 6 Act equitably and justly with clients and members of the health care team.
	VLO 7 Adapt to a variety of health care settings, using different leadership skills and styles as appropriate to each setting.
	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.
	<b>Essential Employability Skills (EES) addressed in this course:</b>
	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective



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communication.

- EES 3 Execute mathematical operations accurately.
- 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:**

Nursing 2019 Drug Handbook Canadian Edition by Lippincott  
Publisher: Elsevier Canada Edition: 2019 Canadian Edition  
ISBN: 9781496353603

Pharmacology for Canadian Health Care Practice by Lilley, Rainforth Collins, Snyder & Swart  
Publisher: Elsevier (Mosby) Edition: 3rd Canadian edition  
ISBN: 9781927406687

Study Guide for Pharmacology for Canadian Health Care Practice by Lilley, Rainforth Collins, Snyder, & Swart  
Publisher: Elsevier (Mosby) Edition: 3rd Canadian edition  
ISBN: 9781771720014

**Course Outcomes and Learning Objectives:**

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
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 Apply the common terms used in pharmacology including the concepts of pharmaceutics, pharmacokinetics, pharmacodynamics and pharmacotherapeutics. 1.3 Discuss the lifespan considerations associated with medication administration (including pregnant women, breastfeeding, infants, children and older adults). 1.4 Incorporate Canadian legislation which governs the administration of medication (including the Food and Drug Act and Controlled Substances Act). 1.5 Discuss the importance of patient education as a component of medication administration (including prescription medications, over the counter medications and natural health products).
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
2. Explain the action, therapeutic indications and nursing responsibilities of select medication classifications.	2.1 Discuss medications that directly affect the genitourinary system (including diuretics, anticholinergic, antispasmodics). 2.2 Discuss medications that directly affect the neuromuscular system (including anticonvulsants, CNS stimulants, osmotic diuretics, antiparkinsonian agents, cholinesterase inhibitors, skeletal muscle relaxants). 2.3 Discuss medications that directly affect the male and female reproductive systems (including hormones, contraceptives). 2.4 Discuss medications that directly affect the immune system (including immunosuppressants, immunizations). 2.5 Discuss medications that directly affect the endocrine



	<p>system (including antidiabetic agents, thyroid and antithyroid agents antidiuretic hormones, adrenocorticosteroids, parathyroid agents).</p> <p>2.6 Discuss the medications used in the treatment of cancer (e.g. antineoplastics).</p> <p>2.7 Discuss the pharmacological management of the side effects associated with anti-neoplastic agents.</p> <p>2.8 Discuss the medications used in the treatment of psychiatric conditions (including antipsychotics, anxiolytics, antidepressants, hypnotics, mood stabilizers).</p> <p>2.9 Discuss the medications used in the treatment of attention disorders and dementia.</p> <p>2.10 Discuss the nursing responsibilities associated with the medications that are used in the treatment of alcohol withdrawal/substance abuse.</p> <p>2.11 Discuss the nursing responsibilities associated with the medications that are used in the treatment of an allergic reaction.</p>
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
3. Apply provincial nursing legislation and standards which impact medication administration and nursing care.	<p>3.1 Discuss the ethical principles associated with medication administration.</p> <p>3.2 Discuss the professional implication of using medical directives.</p> <p>3.3 Describe the role of effective communication as a component of safe medication administration.</p> <p>3.4 Compare the role of the Registered Practical Nurse versus the role of the Registered Nurse in the administration of medications.</p> <p>3.5 Explain the Registered Practical Nurse's accountability in supervising Unregulated Care Providers who administer medications.</p> <p>3.7 Explain the process of medication reconciliation.</p>
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
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	Course Outcome Assessed
Final Exam	40%	
Test #1	30%	
Test #2	30%	

**Date:**

July 9, 2018

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