

## COURSE OUTLINE: ENP103 - PHARMACOLOGY I

Prepared: Stephanie Collins, BN, RN Approved: Bob Chapman, Chair, Health

Course Code: Title	ENP103: PHARMACOLOGY I		
Program Number: Name	3044: ENHANCED PRACTICE		
Department:	PRACTICAL NURSING		
Academic Year:	2023-2024		
Course Description:	The focus of this course is to review and update pharmacological knowledge, interventions, and medication administration. Students will be building on and applying previous pathology knowledge throughout the course. Learners will study the different categories of medications, their actions, uses, adverse reactions, and nursing implications. This course will also provide an overview of complementary therapies.		
Total Credits:	4		
Hours/Week:	4		
Total Hours:	60		
Prerequisites:	There are no pre-requisites for this course.		
Corequisites:	There are no co-requisites for this course.		
This course is a pre-requisite for:	ENP110, ENP114, ENP115		
Vocational Learning Outcomes (VLO's) addressed in this course:	3044 - ENHANCED PRACTICE		
	VLO 1 Conduct comprehensive assessments to plan individualized care supporting health promotion and disease prevention in complex and non-routine patient environments.		
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 2 Integrate evidence-informed research, theory, and critical inquiry within the context of the Canadian health-care system to inform nursing practice and advance clinical judgement in the acute care setting.		
	VLO 3 Model personal and professional responsibility, accountability, self-regulation, and ethical practice when caring for clients and their families to meet Canadian nursing regulatory standards, practices, and legislation.		
	VLO 4 Communicate effectively with diverse populations and the healthcare team to form partnerships and improve health outcomes for individuals, families, groups and communities.		
	VLO 5 Integrate and promote best practices and approaches in relation to the gerontological population within the Canadian healthcare system to plan and deliver nursing care in the acute care setting.		
	VLO 10 Advocate for client, self and the nursing profession by implementing strategies to provide safe and quality nursing care in the acute care setting.		
	VLO 11 Integrate principles and philosophy of end of life care to support the client and their families through the experience of death and dying.		

Essential Employability Skills (EES) addressed in this course:	<ul><li>EES 3 Execute mathematical operations accurately.</li><li>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</li></ul>					
Course Evaluation:	Passing Grade: 50%, A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.					
Books and Required Resources:	Lehne's Pharmacology for Nursing Care by Burcham, & Rosenthal Publisher: Elsevier Edition: 11th ISBN: 9780323825221 Gray Morris` Calculate with Confidence by Killian Publisher: Elsevier Edition: 2nd Canadian ISBN: 9780323695718					
Course Outcomes and	Course Outcome 1	Learning Objectives for Course Outcome 1				
Learning Objectives:	Students will be build on previous pharmacology knowledge and will study the different categories of medications, their actions, uses, adverse reactions, and nursing implications. Additionally, students review the pathology of many various conditions treated with medication therapy. Review will learner the following topics:	<ol> <li>1.1 Outline pharmacology basics, including terminology, drug names, therapeutics, pharmacokinetics &amp; pharmacodynamics, and the application of all in nursing practice. Outline units of measurement, dose calculations and medication administration.</li> <li>1.2 Explain drug interactions, adverse drug reactions and medication errors. The process by which to report adverse reactions and medication errors will be obtained. Outline medication calculation, preparation and administration.</li> <li>1.3 Outline basic neuropharmacology and drugs affecting the peripheral nervous system, including cholinergics and adrenergics, and the nursing implications.</li> <li>1.4 Outline drugs affecting the central nervous system and learn about seizure disorders and the nursing implications for these drugs.</li> <li>1.5 Explain the circulatory system in how it regulates cardiac output and arterial pressures. Outline hemodynamic monitoring.</li> <li>1.6 Explain drugs actions on the renin-angiotensin-aldosterone system including ACE inhibitors, angiotensin II receptor blockers, aldosterone antagonists and the nursing implications for these drugs.</li> <li>1.7 Explain calcium channel blockers and vasodilators, why these drugs are used and the nursing implications for them.</li> <li>1.8 Outline pharmacologic treatments for hypertension, heart failure and dysrhythmias and the nursing implications for each disorder.</li> <li>1.9 Outline anticoagulation therapy including antiplatelet and thrombolytic therapies, the indications for these types of drugs and the associated nursing implications.</li> <li>1.11 Explain pathophysiology of asthma &amp; COPD, the drug</li> </ol>				

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	therapies for each as well as the nursing implications for both	
	diseases.	
	1.12 Outline drugs used for anemias, hemophilia and	
	hematopoietic agents, and the nursing implications associated.	
	1.13 Explain how the different types of diuretics work and the	
	effects they have on fluid balance and electrolyte balance	
	within the body. Explain the nursing implications associated	
	with diuretics.	
	1.14 Outline the drugs affecting volume and ion content of body	
	fluids, as well as the nursing implications for patients on these	
	types of drugs.	
	1.15 Outline the different routes that analgesics can be	
	administered and explain how drugs are used to treat different	
	types of pain.	
	1.16 Outline pathophysiology of diabetes mellitus, the drug	
	therapies for this disease and the nursing implications involved.	
	1.17 Explain mixing insulins and administration of insulins.	
	1.18 Outline medications indicated for use in thyroid disorders,	
	and the nursing implications to be considered.	
	1.19 Explain drugs related to hypothalamic, pituitary, adrenal	
	cortex disorders and the nursing implications involved in each.	
	1.20 Explain the pathogenesis of peptic ulcers, the drugs used	
	to treat them and related nursing considerations. Describe use	
	and abuse of laxatives, and the nursing implications for patients	
	using laxatives.	
	1.21 Outline drug therapy for rheumatoid arthritis, and drugs	
	that affect calcium levels & bone mineralization. Identify the	
	indications for these drugs as well as the nursing implications	
	for patients using these drugs.	
	1.22 Explain the immune system, humoral immunity and cell	
	mediated immunity. Outline immunosuppressant therapy, the	
	indications and the related nursing implications.	
	1.23 Outline antihistamines, their uses, and the nursing	
	implications for them.	
	1.24 Outline NSAID and acetaminophen, the indications for	
	their use and the nursing implications to be aware of.	
	1.25 Explain the basic principles of antimicrobial therapy and	
	differentiate between drugs that weaken the bacterial cell wall,	
	bacteriostatic inhibitors of protein synthesis, sulfonamides,	
	antimycobacterial agents, antifungals, and antivirals. Identify	
	the indications of each type of drug, as well as the nursing	
	implications required.	
	1.26 Outline psychotherapeutic drugs, including	
	antidepressants, anti-anxiety drugs, sedatives, and the nursing	
	implications for each.	
	1.27 Explain the different types of substance use and abuse	
	and the nursing interventions & implications surrounding	
	substance use.	
	1.28 Outline the basics of cancer therapy. Differentiate	
	between cytotoxic and non-cytotoxic drugs, the indications for	
	each, special considerations when administering these drugs	
	and the nursing implications for them.	

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Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
Orading Oystem.	Final Exam	40%
	Test #1	30%
	Test #2	30%
Date:	August 3, 2023	
Addendum:	Please refer to the course outline adden	

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

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