



COURSE OUTLINE : NS 208

D Credit – Degree Applicable

COURSE ID 005034

Cyclical Review: July 2020

COURSE DISCIPLINE : NS
COURSE NUMBER : 208
COURSE TITLE (FULL) : Pharmacology for Nursing
COURSE TITLE (SHORT) : Pharmacology for Nursing

CATALOG DESCRIPTION

NS 208 introduces the nursing student to the basic knowledge of pharmacology required to administer medications. The nursing process and unmet human needs provide a framework for the study of selected classes of medications. The role of the nurse in promoting safe and effective pharmacologic therapy is stressed. The importance of collaborative health team communication and patient education is incorporated throughout the course. Emphasis is placed on teaching the patient/family and promoting compliance in medication management. Legal and ethical issues related to medication administration are integrated throughout.

Total Lecture Units: 2.50

Total Laboratory Units: 0.00

Total Course Units: 2.50

Total Lecture Hours: 45.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 45.00

Total Out-of-Class Hours: 90.00

Prerequisite: NS 205 or previous completion of equivalent coursework.



ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	NS	205	Essentials Of Medication Administration	Calculate drug dosages accurately;	Yes
2	NS	205	Essentials Of Medication Administration	describe the role of the nurse in the safe administration of medication;	Yes
3	NS	205	Essentials Of Medication Administration	define specified terminology and recognize common medical abbreviations;	Yes
4	NS	205	Essentials Of Medication Administration	list reliable print and electronic resources for eliciting information on both prescription and nonprescription medications;	Yes
5	NS	205	Essentials Of Medication Administration	identify patient/client and environmental variables which may impact therapeutic use of medications.	Yes

EXIT STANDARDS

- 1 Describe the role of the nurse in the safe administration of medication, including specific areas of patient/client assessment for selected classifications of medications;
- 2 identify nursing implications established by standards of care when drug administration is part of the patient/client's therapy;
- 3 list and access resources available, both written and electronic, for eliciting reliable information on both prescription and nonprescription medications;
- 4 explain the effects of medication on human needs, considering factors such as age, gender, ethnicity, metabolism, and health problems;
- 5 discuss the impact of social, cultural, lifespan, ethnic, and economic factors on medication administration and patient/client compliance to drug therapy;
- 6 describe effective approaches to patient teaching to improve safety and efficacy of pharmacologic therapy;
- 7 identify and discuss normal routes, side effects, contraindications, untoward reactions, therapeutic outcomes and rationale for the administration of drugs selected as representative agents of a classification;
- 8 describe pharmaco-therapeutics of selected drugs used to treat a variety of health problems and conditions;
- 9 apply knowledge of pharmacology into co-requisite and subsequent clinical courses and settings;
- 10 discuss ethical situations which are frequently encountered in medication administration, including those which are commonly linked to patient/client age, developmental stage, and/or prognosis.



STUDENT LEARNING OUTCOMES

- 1 recognize similarities and differences between medications in the same class and between classes of medications that are used in the treatment of a variety of health care problems
- 2 demonstrate the ability to acquire knowledge in pharmacology in co-requisite and subsequent nursing courses that is necessary for student success in the nursing program
- 3 identify adverse and untoward effects of selected medications that might interfere in meeting and maintaining basic human needs;

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Overview of the Course <ul style="list-style-type: none"> • Review of nursing responsibilities • Compliance and patient education • Drug therapy as an intervention within the nursing process • Pharmacologic agents and human need fulfillment 	1	0	1
2	Drugs Used to Treat and Prevent Pain • Pain assessment and evaluation <ul style="list-style-type: none"> • Pain theories and pathways • Inflammation • Nonnarcotic analgesics • Narcotic agonists and antagonists • General, local, and topical anesthetic agents • Substance dependency and abuse 	4.5	0	4.5
3	Drugs Used to Prevent or Treat Infection <ul style="list-style-type: none"> • Antimicrobial spectrum and drug selection • Factors affecting drug use and effectiveness • Antibacterials • Antituberculars and antileptotics • Antiviralso Antifungals • Antimalarials/antiprotozoals • Anthelmintics • Urinary antiseptics 	5	0	5
4	Drugs Used in Cardiovascular Health Problems <ul style="list-style-type: none"> • Assessment of cardiovascular function • Cardiac glycosides • Antiarrhythmics • Antianginals • Antihypertensives • Diuretics • Antilipidemics 	5	0	5



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5	<p>Drugs Used in Gastrointestinal Health Problems</p> <ul style="list-style-type: none"> • Common GI health problems and symptoms • Use of over-the-counter preparations • Absorbents, antiflatulents, and digestive agents • Antidiarrheal and laxative agents • Emetics and antiemetic agents • Peptic Ulcer agents 	4	0	4
6	<p>Drugs Affecting Autonomic Nervous System Health Problems</p> <ul style="list-style-type: none"> • Review of the autonomic nervous system • Cholinergic and cholinergic blocking agents • Adrenergic and adrenergic blocking agents • Neuromuscular blocking agents 	5	0	5
7	<p>Drugs that Alter Psychogenic Needs/Behavior and Promote Sleep/Rest</p> <ul style="list-style-type: none"> • Review of the physiology and anatomy of the CNS and sleep cycle • Sedative and hypnotic agents • Neuromuscular blocking agents • Antidepressant and antimanic agents • Antianxiety agents • Antipsychotic agents 	4	0	4
8	<p>Drugs that Treat Neurologic and Neuromuscular Disorders</p> <ul style="list-style-type: none"> • Review of the peripheral nervous system • Skeletal muscle relaxing agents • Antiparkinson agents • Anticonvulsant agents 	3	0	3
9	<p>Drugs Used to Treat Endocrine Health Disorders</p> <ul style="list-style-type: none"> • Review of the endocrine system and its relationship to stress • Hypoglycemic agents and glucagons • Thyroid and antithyroid agents • Parathyroid agents • Pituitary agents • Androgenic and anabolic steroid agents 	4	0	4
10	<p>Drugs Used to Treat Respiratory Health Problems</p> <ul style="list-style-type: none"> • Review of the respiratory system • Methylxanthine derivatives • Expectorants, antitussives, and mucolytics • Decongestants 	5	0	5
11	<p>Drugs Affecting Hematological Health Problems</p> <ul style="list-style-type: none"> • Review of plasma and types of blood cells • Hematinics • Anticoagulants • Thrombolytics • Antiplatelet aggregation 	3	0	3



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12	Drugs Used to Control Inflammation, Allergy, and Organ Rejection • Review of the inflammatory process • Antihistaminic agents • Corticosteroid and other immunosuppressant agents • Uricosurics, antigout agents, and gold salts	1	0	1
13	Uncategorized and Other Agents	0.5	0	0.5
				45

OUT OF CLASS ASSIGNMENTS

- 1 computer-aided instructional modules;
- 2 evidence-based journal article analysis;
- 3 written assignment (evidence-based practice research project, e.g. legal aspects of medication administration).

METHODS OF EVALUATION

- 1 quizzes;
- 2 critique of the written assignment;
- 3 midterm examination;
- 4 final examination

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations



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TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
Pharmacology: a Patient-Centered Nursing Process Approach	Required	Elsevier	10		Linda E. McCuiston	978-0323642477	2020