ACADEMIC CATALOG
2026-2027



MIDWAY
UNIVERSITY

Midway University

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Course

NSG 121 - Pharmacology

This course relates normal body functioning to foundational pathophysiologic and pharmacologic concepts.# Major health problems across the life-span and cultural variations are discussed with an emphasis on the vital role the professional nurse plays in the clinical application of drug therapy. # Client safety and the role of information technology are applied to essential systems, including cardiovascular, respiratory, central nervous, endocrine, gastrointestinal, renal, musculoskeletal, and infection control. Emphasis will be placed on understanding medication mechanisms, safe administration, and nursing implications to enhance clinical readiness. #This is a reading-intensive course.

Upon completion, students will be able to:

- Integrate one’s new knowledge of the pharmacokinetic processes of absorption, distribution, metabolism, excretion, and variables that affect drug actions while relating the basic principles of pharmacology and the Nursing Process to selected drugs and their therapeutic use across the lifespan.
- Explain the basic principles of pharmacology and pathophysiology through the Nursing Process, and General Systems Theory Model to identify factors that place clients at risk for adverse drug reactions and poly-pharmacology.
- Identify the role of interprofessional communication in enhancing client safety related to medication administration and effective transitions across levels of care while examining professional values (legal and ethical) in relation to quality client outcomes.
- Discuss the nursing process and the General Systems Theory Model as they relate to the impact of illness and medications on the physiological, sociocultural, developmental, and spiritual variables that placed clients at risk for adverse drug reactions and polypharmacy
- Describe the evidence-based interventions necessary to address pathophysiologic changes in the Fluids and Electrolytes; Acid/Base (Metabolic) Disorders; Integumentary; Head, Ears, Eyes, Nose, and Throat (HEENT); Reproductive; Genitourinary; Neurologic; and Musculoskeletal alterations.
- Apply professional practice responsibility and accountability standards in pharmacologic interventions to improve the care of clients with Fluids and Electrolytes; Acid/Base (Metabolic)

Disorders; Integumentary; Head, Ears, Eyes, Nose, and Throat (HEENT); Reproductive; Genitourinary; Neurologic; and Musculoskeletal alterations, and the related medication therapy across the lifespan.

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

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