

Montgomery College Nursing Program

NURS 129: Pathophysiology and Pharmacology in Nursing (2 Credits)

Course Description

NURS 129: Pathophysiology and Pharmacology in Nursing provides an introduction to clinical drug therapy with an emphasis on the knowledge and interventions needed to maximize therapeutic effects and to prevent or minimize adverse effects of drugs. Major content areas include basic concepts of pharmacology, groups of therapeutic drugs, prototypes of drug groups, commonly prescribed individual drugs, drug effects on body tissues, human responses to drug therapy, applying the nursing process in relation to prescribed drug therapy regimens, and principles of therapy in various circumstances and populations. **NURS 129 consists of 2 semester credit hours: Two hours of classroom instruction per week.** Pre-Requisites: A grade of C or better in BIOL 150, NURS 113, NURS 114, NURS 121, ENG 102 or 103. Pre or Co-Requisites: PYSC 102 or 203, BIOL 212 and Mathematics Foundation, or consent of program coordinator. NURS 129 is offered both as a Face to Face class (F2F) and as a Distant Learning Class (DL).

Course Outcomes

Upon completion of this course, students will be able to:

1. Apply knowledge of evidence-based practices to enhance understanding of disease processes and other health-related conditions
2. Recognize legal and ethical issues pertaining to the medication delivery process in healthcare practice
3. Utilize the nursing practice for decision making in the care of patients with altered health states
4. Demonstrates knowledge of healthcare technological resources to support understanding of disease processes
5. Discuss pharmacokinetics, pharmacodynamics, and the pharmacotherapeutics of medications within each pharmacological category

Program Outcomes (EOPSLO's: End of Program Student Learning Outcomes)

1. Maintain legal, ethical, evidence-based and professional standards in nursing.
2. Utilize clinical reasoning in practice.
3. Practice patient centered care.
4. Demonstrate teamwork and collaboration.
5. Effectively use current technology and informatics.
6. Ensure a safe environment for patient, self, and others.

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Evaluation Methodology

Examinations	Points	Assignments	Points
Examination 1	20	ATI Pharmacology Made Easy 3.0	16
Examination 2	20	ATI Practice Assessments	8
Examination 3	20	ATI Proctored Assessment	4
Examination 4	20		
Examination 5	20		
Final Examination	80		
Total points possible	180	Total points possible	28
Total points needed for 75%	135	Total points needed for 75%	21