

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Pharmacology For Nurses I

Course Abbreviation and Number: NUR 2350

Credit Hours: 1.5

Course Type: Lecture

Course Description: Students will be introduced to essential information which promotes the knowledge and skills of safe medication therapy to clients/patients across the lifespan. The course will present the study of the pharmacological action of medications and the care of the client/patient using the nursing process. The course focuses on the medication for patients with alterations in the following: oxygenation, perfusion, sensory-perception, tissue integrity, cellular regulation and psycho-social.

Prerequisite: NUR 1520 and successful completion of BIO 2510 and BIO 2520 with a grade of C or better.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Recognize general concepts of medication action in terms of: pharmacotherapeutics, pharmacokinetics, pharmacodynamics, client/patient responses, and potential drug interactions.
 2. Group medication by their mechanism of action and pharmacological class
 3. Assess clients/patients for therapeutic and adverse responses to drug therapy.
 4. Apply the principles of pharmacology action to the care of the clients/patients across the life span.
 5. Utilize the nursing process in the administration of medications to clients/patients.
 6. Employ information regarding selected ethical, legal and professional issues as they relate to the administration of medications.
 7. Teach patients and family members safe and effective drug administration.
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Topics Covered:

- Introduction to Pharmacology
- Basic Concepts and Processes
- Cholinergic response
- Anti-cholinergic response
- Physiology of the Digestive System
- Drugs Used for Peptic Ulcer and Gastro esophageal Reflux Disorders
- President's Day recess
- Drug Therapy for Constipation and Elimination Problems
- Drug Therapy for Diarrhea
- Drug Therapy for Nausea and Vomiting
- Nutritional Support Products
- Drug Therapy for Weight Management
- Nursing Interventions for the Digestive System
- Physiology of the Central Nervous System
- Drug therapy with Opioids
- Acetaminophen
- Drug Therapy to Decrease Pain, Fever, and Inflammation
- Drug Therapy for Spasticity
- Drug Therapy with Local and General Anesthesia
- Drug Therapy to Reduce Anxiety and Produce Hypnosis
- Drug Therapy to Stimulate the Central Nervous System
- Drug Therapy for Psychotic Disorders
- Drug Therapy for Depression and Mood Stabilization
- Drug Therapy for Substance Abuse Disorders
- Nursing interventions for Pain, Muscle, Anesthesia,
- Psychiatric Disorders and Neurological Disorders
- Physiology of the Endocrine System

- Drug Therapy for Pituitary & Hypothalamic Dysfunction
- Drug Therapy with Corticosteroids
- Drug Therapy for Thyroid Disorders
- Drug Therapy for Diabetes Mellitus
- Drug Therapy to Regulate Calcium & Bone Metabolism
- Nursing interventions for the Endocrine System
- Overview of Micro-organisms
- Drug Therapy with Beta Lactam Antibacterial Agents
- Drug Therapy with Aminoglycosides and Fluoroquinolones
- Drug Therapy with Tetracyclines, Sulfonamides and Urinary Antiseptics
- Drug Therapy with Macrolides, Ketolides, & Miscellaneous
- Anti-infective Agents
- Physiology of the Hematopoietic and Immune System
- Drugs for Hematopoietic Disorders and to Enhance Immunity
- Drug Therapy to Suppress Immunity
- Drug Therapy for the Treatment of Cancer
- Nursing implications: Antimicrobial, Immune, Oncologic

Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)

- [Accessibility Services](#)

Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.

- [Get Help: JCC & Community Resources](#)
- [Emergency Closing Procedures](#)

- Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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- Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.

Effective Date: Fall 2021