

Capital Area School of Practical Nursing
Pharmacology
Syllabus
Fall 2008

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Placement of Course: Third Quarter

Course Description:

This course begins with the drug action, nursing process and client teaching. Medications and calculations are a key focus of this course. Selected drugs are reviewed, describing the classifications, action, dosage, side effects, and nursing interventions. This course also introduces the principles of administration of medications, including legal aspects, safety measures, dosage calculations, as well as administrative techniques.

During the clinical experience, students will integrate knowledge with actual administration of medications.

Prerequisite courses are those taught in First and Second Quarters. The course is taught concurrently with Mental Health Nursing and PN Clinical III.

TEXTBOOKS:

1. Kee, J., Hayes, E., & McCuiston, L. (2006) Pharmacology: A Nursing Process Approach, 5th Edition. St. Louis, MO Saunders/Elsevier.
2. Kee, J., Hayes, E., & McCuiston, L. (2006) Pharmacology: A Nursing Process Approach Study Guide. 5th Edition. St. Louis, MO Saunders/Elsevier
3. Assessment Technologies Institute, LLC (2006). Pharmacology for Nursing Version 4.0, Overland Park, KS: ATI

REFERENCES:

1. 2006 PDR Nurse's Drug Handbook
2. Clayton, B., Stock, Y. & Squire, J., (2001) Basic Pharmacology for Nurses. 13th Edition. St. Louis, MO: Mosby Co.
3. Kee, J., & Marshall, S. (2004) Clinical Calculations, 5th Edition. St. Louis, MO: Saunders/Elsevier.
4. Illinois Department of Professional Regulation: THE ILLINOIS NURSING PRACTICE ACT, Printed 2007.
5. Holland, N. & Adams, M. (2007). Core Concepts in Pharmacology., 2nd Edition. Upper Saddle River, New Jersey: Pearson Education, Inc.

COURSE OBJECTIVES:

At the end of this course, the student will be able to:

1. Discuss the definition, name, standards, and sources of drugs.
2. Describe common drug actions and interactions.
3. Relate the nursing process to pharmacology.
4. Describe patient teaching of selected drugs.
5. Describe the "5 Plus 5" pertaining to the administration of medications.
6. Describe the classification, action, dosage, side effects, toxic effects and nursing interventions of selected drugs.
7. Compute medication dosages accurately in the classroom/lab setting and clinical performance.
8. Describe legal/ethical and safety measures pertinent to the administration of medications.
9. Discuss principles and risks of intravenous (IV) therapy.
10. Insert peripheral intravenous lines.
11. Calculate intravenous (IV) rates with correct formulas.
12. Discuss common drugs and solutions administered intravenously (IV).
13. Administer intravenous fluids per current interpretation of the Illinois Nurse Practice Act.
14. Safely prepare and administer medications to selected patients.

METHODS OF TEACING:

1. Lecture-Discussion/PowerPoint's
2. Handouts and Worksheets
3. Quizzes and Case Studies
4. Written Tests
5. Demonstrations
6. Skills Lab
7. Clinical Experience
8. Evaluations
9. Audio/Visual
10. Group Presentation
11. ATI Computer Training

METHODS OF EVALUATION:

SKILLS LAB:

A Student will be required to demonstrate competency in each skill taught in lab. There are demonstration /practice days and competency skill test days which are clearly indentified in the calendar. Being an accelerated program, the student must be present to learn. As identified in the Student Handbook missing two (2) of either of these days will result in probation. You may not go to clinical until you are competent in all skills. Any missed skills must be made up.

ATI PROCTORED EXAM:

The ATI Pharmacology Proctored Exam will be administered during this quarter. Those scoring at level two will receive the possible points awarded for the exam 10% of total course points. Those scoring at level one will receive 8% of total course points and those scoring below level one 7.7% of total course points, but only after having successfully completed remediation of ATI content material as assigned by the instructor. If remediation is not completed the student will receive a 0 for the ATI exam. Those students who exceed level two on the exam will receive the total possible points awarded and a bonus of 1% of total course points.

THEORY:

A total point system is used. The letter grade is based on the percentage of total points earned. A total of at least 77% must be achieved to pass this course.

GRADES

A	93-100	Academic Excellence
B	86-92	Above Average
C	77-85	Average
D	70-76	Below Average-Failed
F	0-69	Failed

ASSIGNMENTS:

- Preventing Medication Errors Poster 50 points
- Quizzes (will drop 2 lowest scores) 100 points
- Math Test 50 points
- Exams 800 points
- Group Presentations-Patient Teaching 200 points
- Final Exam 200 points
- Proctored ATI 140 points

Total Possible Points **1540 points**

STUDENT RESPONSIBILITIES:

1. All policies are to be followed as documented in the CASPN STUDENT HANDBOOK.
2. Students are expected to bring all books, papers and forms requested by the instructor.
3. Students are expected to be on time, prepared, and actively participate in class. Attendance is required for entire class period or student will be counted absent-NO EARLY DISMISSALS.
4. Refer to handbooks regarding attendance policy.
5. Students may be sent home at the instructors discretion for any violations of policies listed in the CASPN STUDENT HANDBOOK.

TABLE OF CONTENTS:

- Unit I A Nurse’s Perspective of Pharmacology**
1. Drug Action
 2. Nursing Process and Client Teaching
 3. Principles of Drug Administration
- Unit II Medications and Calculations**
1. Medications and Calculations
 2. Systems of Measurement and Conversion
 3. Methods for Calculation
 4. Calculations of Oral Dosages
 5. Calculations for Injectable Dosages
 6. Calculations of Intravenous Fluids
 7. Pediatric Drug Calculations
- Unit III Contemporary Issues in Pharmacology**
1. The Drug Approval Process
 2. Transcultural and Genetic Considerations
 3. Drug Interaction and Over-the Counter Drugs
 4. Drugs of Abuse
 5. Herbal Therapy with Nursing Implications
 6. Pediatric Pharmacology
 7. Geriatric Pharmacology
 8. Medication Administration in Community Settings
 9. The Role of the Nurse in Drug Research
- Unit IV Nutrition and Electrolytes**
1. Vitamin and Mineral Replacement
 2. Fluid and Electrolyte Replacement
- Unit V Autonomic Nervous System Agents**
1. Adrenergics and Adrenergic Blockers
 2. Cholinergics and Anticholinergics
- Unit VI Neurologic and Neuromuscular Agents**
1. Central Nervous System Stimulants
 2. Central Nervous System Depressants
 3. Drugs for Pain Management
 4. Anticonvulsants
 5. Drugs for Neurologic Disorders
 6. Drugs for Neuromuscular Disorders

- Unit VII Psychiatric Agents**
1. Antipsychotics and Anxiolytics
 2. Antidepressants and Mood Stabilizer
- Unit VIII Anti-inflammatory and Anti-infective Agents**
1. Anti-inflammatory Drugs
 2. Antibacterial
 3. Antibacterial Part II
 4. Antibacterial Part III
 5. Antitubercular Drugs, Antifungal Drugs, Peptides and Metronidazole
 6. Antiviral, Antimalarial, and Anthelmintic Drugs
 7. Drugs for Urinary Tract Disorders
- Unit IX Immunological Agents**
1. HIV and AIDS Related Agents
 2. Vaccines
- Unit X Cancer Agents**
1. Anticancer Drugs
 2. Biologic Response Modifiers
- Unit XI Respiratory Agents**
1. Drugs for Common Upper Respiratory Disorders
 2. Drugs for Acute and Chronic Lower Respiratory Disorder
- Unit XII Cardiovascular Agents**
1. Cardiac Glycosides, Antianginals, and Antidysrhythmics
 2. Diuretics
 3. Antihypertensive Drugs
 4. Anticoagulants, Antiplatelets, and Thrombolytics
 5. Antilipidemics and Peripheral Vasodilators
- Unit XIII Gastrointestinal Agents**
1. Drugs for Gastrointestinal Tract Disorders
 2. Antiulcer Drugs
- Unit XIV Eye, Ear and Skin Agents**
1. Drugs of Disorders of the Eye and the Ear
 2. Drugs for Dermatologic Disorders

Unit XV**Endocrine Agents**

1. Endocrine Pharmacology
2. Antidiabetic Drugs

Unit XVI**Reproductive and Gender Related Agents**

1. Drugs Associated with the Female Reproductive Cycle I
2. Drugs Associated with the Female Reproductive Cycle II
3. Drugs Associated with Postpartum and the Newborn
4. Drugs related to Women's Health and Disorders
5. Drugs related to Reproductive Health: Male Reproductive Disorders
6. Drugs Related to Reproductive Health

Unit XVII**Emergency Agents**

1. Adult and Pediatric Emergency Drugs

***Note: This syllabus is not a contract between the instructor and student enrolled. Content is subject to change. Students will be given a written copy of any changes made in content, course policies or grading as they may occur.**