# UNIVERSITY OF MARYLAND SCHOOL OF NURSING

COURSE TITLE: NURS 637 Geriatric Pharmacotherapy

CREDITS: 3 (Spring only)

FACULTY: Patricia Grunwald, PharmD.

Faculty Coordinator: Barbara Resnick, PhD, CRNP

Tel: 410-706-5178 Beeper: 410-909-7137

# **COURSE DESCRIPTION:**

This course is designed to provide advanced knowledge of commonly prescribed pharmacologic agents in the care of older adults for graduate students preparing for the advanced practice roles in gerontological nursing. Rational for the use of appropriate, safe, and effective pharmacologic agents in the treatment of selected health problems in aging will be presented. Clinical considerations in the selection, initiation, maintenance, and discontinuation of drug treatment will be examine especially as it relates to the older adult. Legal implications of pharmacotherapy will also be reviewed.

### CO-REQUISITE:

This course must be taken concurrently with NURS 636 for all students in the GNP program and follows the content areas presented in that course.

PRE-REQUISITES: NURS 634

# COURSE OBJECTIVES:

- 1. Related the pathophysiologic alterations to the rationale for utilization of specific pharmacologic agents in the management of common health problems in older adults.
- 2. Describe the characteristics of selected pharmacologic agents which include: therapeutic effects, adverse reactions, drug interactions, toxic effects, contraindications, dosages and dosage forms, and clinically relevant pharmacokinetic considerations which may affect nursing care.
- 3. Identify factors important in the selection, initiation, maintenance or discontinuation of appropriate, safe, and effective pharmacologic agents.
- 4. Describe the impact of the legal system on the administration of pharmacologic agents by advanced practice nurses.
- 5. Utilize clinical data from a patient case to discuss the impact

of pharmacologic agents on the course of illness and nursing interventions.

# **COURSE REQUIREMENTS:**

- 1. Preparation for class by reading assigned chapters/articles.
- 2. Utilization of pharmacotherapy knowledge gained from undergraduate pharmacology courses and years of administration of drugs.

# **EVALUATION:**

- 1. Class participation related to topics and case studies 10%
- 2. Drug information question: Each student will identify a drug information question to research and write a 3-5 page double spaced typed summary of the question with a literature search and references included. For example, questions should focus on:
- a) the pharmacologic management of a particular disease;
- b) idiosyncratic response to a drug; or c) advantages and disadvantages to a particular drug treatment for a given diagnosis (treatment of osteoporosis with Fosamax; treatment of CHF with digoxin; treatment of DJD with NSAIDS).
- 3. Midterm 30%
- 4. Final 30%

### TEXTBOOKS:

DiPiro, J.T. et al (1996). <u>Pharmacotherapy: A</u>
<u>Pathophysiological Approach.</u> (3rd Ed). Norwalk: Appleton & Lange.

	Topical Class Schedule
Week 1 Jan 29	Pharmocokinetic and pharmacodynamic changes in the elderly. Patterns of drug use in the elderly.
Week 2 Feb 5	Respiratory - bronchodilators, inhalers, antiTB agents, antihistamines, decongestants, expectorants
Week 3 Feb 12	Cardiac - antihypertensives, diuretics
Week 4 Feb 19	Cardiac - antiarrhythmics, cardiac glycosides, anticoagulants, coronary vasodilators
Week 5 Feb 26	GI - antacids, histamine antagonists, laxatives, antispasmodics, antidiarrheals
Week 6 March 5	Analgesics - pain management, antiinflammatory agents, narcotics, muscle relaxants
Week 7 March 12	Midterm
Week 8 March 19	Hem & Neuro - iron, folate, B12; anticonvulsants, anti- parkinsonism agents; glaucoma agents
Week 9 March 26	SPRING BREAK
	*PAPERS DUE* Antibiotics; Hormones-estrogen, testosterone, steroids
Week 11 April 9	Patient compliance and prescribing patterns; immunizations
Week 12 April 16	Psychoactive drugs - antidepressants, antianxiety, hypnotics, sedatives
Week 13 April 23	Endocrine - insulin, hypoglycemic agents, thyroid
Week 14 April 30	Final Exam
Week 15 May 7	Legal implications of geropharmacotherapy