Course Title: Advanced Pharmacology

Credit Hours: 3 Semester Hours

Pre-requisites: Completion of a Baccalaureate Degree in Health Sciences or Physician Assistants (PA's)

Course Administrator: Myra Carmon, EdD, CPNP, RN

Location: Web Vista (http://vista.gsu.edu)

Lecturers: Pharm-D's from the Department of Pharmacy Practice Mercer University School of Pharmacy

Course Description:
This course is designed to provide the advanced practice Health care provider with knowledge of pharmacological agents used in the treatment of adults, adolescents and young children. Emphasis is placed on indications, mechanisms of action, prescriptive drug protocols, techniques and dosages.

Objectives:
Upon completion of the course the student should be able to:
1. Demonstrate knowledge of the pharmacology of selected groups of drugs including the:
   a. mechanisms of actions for drugs.
   b. factors which influence absorption, distribution, metabolism and excretion of drugs.
   c. therapeutic vs. toxic dosages.
   d. physiological and psychological effects of drugs on the body.
2. Demonstrate the ability to accurately and appropriately prescribe medications.
3. Utilize research findings in prescribing pharmacological agents in advanced practice.
Curricular Objectives:
1, 2, 3, 4, 5, & 6

Methods of Instruction:
Lecture
Case Study analysis

Evaluation Methods:
- Quizzes: 35%
- Case Studies: 25%
- Final: 40%

** All case studies and quizzes for each section must be completed within a 2 week period. See Handout for directions to access Vista for schedule.

Textbook: May change.

Other Readings:
"The Medical Letter on Drugs & Therapeutics" (Published twice a month) in library.
"Drug Therapy" (published monthly)
Address to order:
The Medical Letter
1000 Main Street
New Rochelle, NY 10801-7537

Handouts on Topics prepared by Lecturer
Other articles or readings assigned by lecturers

Health Assurance - Universal Precautions:
Every student is attending the scheduled session on current Universal Precaution recommendations prior to participating in field/clinical experiences.

Please Note: The course syllabus provides a general plan for the course; deviations may be necessary.

For Graduate nursing students only:
Students are accountable for the information and policies set forth in the Graduate Handbook of the School of Nursing. Purchase of the handbook is recommended (Georgia Book Store).
Accommodation for Students with Disabilities:
Georgia State University complies with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Students with disabilities who seek academic accommodations must first appropriate documentation to the Office of Disability Services located in Suite 203 of the Student Center.

The resources of the University are provided for the intellectual growth and development of its students; it is expected that students should attend class regularly. There are two formal institutional regulations regarding class attendance: Regents' Test Preparation course attendance policy (see appropriate sections of the general catalog); and Veterans' attendance policy, delineated below.

The Department of Veteran Affairs requires that institutions of higher learning immediately report to them when a student discontinues attendance. GSU institutional policy requires that professors report the absence of a veteran student as soon as it is known that the student will not be returning to class. Generally, this should be reported after one week of absences and no later than two weeks of nonattendance by a student.

All matters related to student absences, including the making up of work missed, are to be arranged between the student and the professor. All professors will, at the beginning of each semester, make a clear statement to all their classes in the syllabus their policies for handling absences. Professors will also be responsible for counseling with their students regarding the academic consequences of absences from their classes or laboratories. Students are obligated to adhere to the requirements of each course and of each professor.

Students must be present for announced quizzes, laboratory periods, or final examinations unless the reasons for the absences are acceptable to the professors concerned. Faculty are encouraged to take into consideration whether a short-term absence results from participation in University business, from attendance at recognized religious holidays of the student's faith, from summons to jury duty, or from similar compelling reasons for absence.
NURS 7550
Content Outline for Advanced Pharmacology

Date/readings* Search Topic and Read Appropriate pages/chapters

Readings
Week of
May 31
Unit I
  A. Introduction to Pharmacology
    1. Pharmacokinetics  Tim Briscoe Pharm.D.
    2. Pharmacotherapeutics
    3. Cost-Effectiveness of Pharmacological Therapy
    4. INSAIDS
    5. Diabetic Drugs

*June7  Quiz 1 & Case Studies Due

Week of
June 7
B. Immunologic Agents
  1. HIV/AIDS/Agents  Robert Anderson, Pharm D
     a. Reverse transcriptase inhibitors
     b. Non-reverse transcriptase inhibitors
     c. Protease inhibitors
     d. Current recommendations

June 14  Quiz II & Case Studies Due

Week of
June 14
C. Drugs for Infections
  1. Antimicrobial Agents  Wendy McKinzie, Pharm. D.
     a. Penicillins
     b. Cephalosporins
     c. Aminoglycosides
     d. Antifungals
     e. Others

  2. Preferred drugs for
     a. UTI's
     b. Otitis Media
     c. Conjunctivitis
     d. STD's
     f. Osteomyelitis
     f. Meningitis
June 21  
**Quiz III and Case Studies over Antimicrobials Due**

June 21  
D. **CNS Central and Peripheral Agents**  
1. Pain Control/Analgesics  
   Julie Cold, Pharm. D.  
2. Musculoskeletal Agents  
3. Anti-seizures agents  
4. Anti-anxiety Agents-contraindications  
5. ADHD  
6. Psychotropic Agents

June 28  **Quiz IV & Case Studies for CNS/PNS Due**

Week of June 28  
E. **Respiratory**  
   Heidi Cantrell, Pharm D.  
1. Reactive Airway Disease (RAD)  
   a. COPD  
   b. Asthma (Theophylline, Beta-Agonists) steroids  
2. Bronchiolitis, pneumonia, URI's, pharyngitis  
3. TB  
4. Allergies  
5. Cystic Fibrosis

July 5  **Quiz V & Case Studies for Respiratory Due**

Week of July 5  
F. **Dermatological Agents**  
   Myra Carmon, EdD, CPNP, RN  
1. Acne  
2. Diaper Rashes  
3. Fungal Infections  
4. Impetigo  
5. Scabies  
6. Lice  
7. Atopic dermatitis/eczema

July 12  Quiz VI and Case Studies for Derm Due

Week of July 12  
G. **Cardiovascular Agents**  
   Bob Anderson, Pharm. D.  
1. Antihypertensives  
   a. diuretic  
   b. Ace Inhibitors  
   c. Beta Blockers/Alpha Blockers  
   d. Calcium Channel Blockers  
   e. Vasodilators
2. Drugs for lowering cholesterol
3. Congestive Heart failure
4. Oral anticoagulants
5. Angina Pectoris

July 19** Quiz VI & Case Studies for Cardiac

**Gastrointestinal Agents**

July 19

1. Antacids  
   Dianne Nykamp-McCarter, Pharm D
2. Antiemetics
3. Constipation
4. Parasites/Worms
5. Anti-diarrheals

I. **Vitamins and Minerals**

July 26

*** Quiz VII & Case Studies for GI Due

**Hormone Replacement/Contraception**

July 26

1. Hormones Replacement Therapy  
   Carol Hayes, NP
2. Contraceptives

July 26

K. **Endocrine Agents for**

   a. Thyroid  
   Bob Anderson, Pharm. D.

** Case studies due/no quiz

Final will be on August 2 from 4:30 - 6:30 pm on campus on computer