

Title: Advanced Pharmacologic Applications in Primary Care

Credit Hours: 3 Credit Hours

Pre- or Co Requisite: Graduate status and Graduate pathophysiology course.

Course Description: This course is designed to prepare clinical nurse specialists, NPs, NS, and midwives to accurately describe, administer, and counsel patients regarding appropriate and safe medication regimens. In addition nurse practitioners, nurse midwives and clinical nurse specialist will be prepared medication prescriptive authority within their scope of practice. Basic pharmacologic principles and the pharmacologic actions of the major drug classes will be discussed in relation to physiologic systems, with emphasis on the application of these agents.

Course Objectives: Upon completion of the course, the students will be able to:

1. Explain the basic principles of pharmacology and pharmacotherapeutics.
2. Describe the most commonly prescribed agents in the major drug classes.
3. Explain the mechanism of action of the major drug classes.
4. Analyze the adverse effect and drug interaction profiles of the major drug classes and individual drugs within these classes.
5. Make appropriate therapeutic treatment decisions for individual patients utilizing drugs from the major drug classes.
6. Apply the laws governing the prescribing of drugs when writing prescriptions.

FACULTY:

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Contact College of Nursing Continuing Education for questions about course enrollment ((859) 323-5183)

TEACHING/LEARNING METHODS: This is a self-directed learning using core Power-point presentations, word documents, World-Wide Web sites, and case solving activities. Students must have access to computer facilities, the Internet, a web browser that is equivalent to Internet 6 Explorer or higher, email address, and a printer.

EVALUATION:

Examinations and Evaluations: Each unit will have an examination consisting of 10-20 multiple choice questions. A comprehensive final must also be completed at the end of the course. The questions will test both understanding and application of the unit material.

GRADING SCALE:

Unit Examinations (14 units X 20 points each)	280 points
Final Assessments	140 points
TOTAL	420 points

The total score will be reported to your institution as a percentage. Your institution will assign the final letter grade that you earned for the course.

Class Times: This course is a web course and will use a distance learning format. The course will be taught via the Web-enhanced format utilizing the assigned websites, core PowerPoint presentation, word documents, textbook reading assignments and other self-directed learning activities.

Suggested Texts:

15th or 16th Edition Drug Information Handbook for Advanced Practice Nursing. Lexi-Comp, Inc.(Online or Smart Phone versions acceptable)

Note about above text: This handbook provides a monograph on many of medications covered in this course. I recommend using it to practice looking about common medication information. Also you may utilize this resource on the quiz.

Harvey (2015). Lippincott's Illustrated Reviews: Pharmacology, 6th edition, Lippincott W&W

Reading assignments made from the Pharmacology textbook are intended to supplement student comprehension of assigned Learning Units.

Core Learning Unit Materials: Units will be available online with continued availability. Assigned readings in the required ext are intended to supplement student comprehension of assigned Learning Units.

TENTATIVE COURSE SCHEDULE

UNITS: Each unit will consist of objectives, study questions, a core PowerPoint presentation (or word document), textbook reading assignments and web-based material.

<i>Topics</i>	<i>Assignments</i>
Unit 1: Introduction to Course Basic Principles of Pharmacology and Therapeutics	See Moodle for Web-based material Required Textbook Reading Chapters 1 and 2 in <i>Lippincott's Illustrated Review: Pharmacology</i>
Unit 2: Drugs affecting the Autonomic Nervous System 1. Cholinergic Agonists 2. Cholinergic Antagonists 3. Adrenergic Agonists 4. Adrenergic Antagonists	See Moodle for Web-based materials Required Textbook Reading Chapters 3,4,5,6, and 7 in <i>Lippincott's Illustrated Review: Pharmacology</i>
Unit 3: Nervous System I 1. Seizure Disorders 2. Parkinsonism and other movement disorders 3. Dementia	See Moodle for Web-based materials Required Textbook Reading Chapters 8 and 12 in <i>Lippincott's Illustrated Review: Pharmacology</i>
Unit 4: Nervous System II 1. Antipsychotic agents and Lithium 2. Antidepressant Agents 3. Sedative-hypnotic Agents 4. Stimulants	See Moodle for Web-based materials Required Textbook Reading Chapters 9, 10, 11, 16 in <i>Lippincott's Illustrated Review: Pharmacology</i>

<p>Unit 5: Nervous System III 1. Opioid analgesics and antagonists 2. NSAIDS 3. Agents to treat Headache</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 14, 36 (pp.447-457;464-469) in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 6: Respiratory System 1. Asthma/COPD 2. Allergic rhinitis 3. Cough/Cold</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 29 and 30 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 7: Cardiovascular and Renal Systems I 1. Antihypertensive agents 2. Drug used in Congestive heart failure 3. Agents used in Angina and Myocardial Infarction</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 17, 18, 19, and 21 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 8: Hematologic system I 1. Agents used Anemias 2. Agents used in Dyslipidemias</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 23 and 33 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 9: Hematologic System II 1. Agents used Thromboembolic disorders</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapter 22 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 10: Endocrine System 1. Thyroid disorders Diabetes</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 24 and 25 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 11: Reproductive System 1. Hormone Replacement Therapy 2. Hormonal Contraceptives 3. Menstrual Disorders Osteoporosis</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 26 and 35 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 12: Anti-Infectives I 1. Antibiotics</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 37, 38, 39, and 40 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 13: Anti-Infectives II 1. Antifungals 2. Antivirals</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapters 42 and 45 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>
<p>Unit 14: Gastrointestinal System 1. Nausea /Vomiting 2. Diarrhea/Constipation 3. Peptic Ulcer 4. GERD</p>	<p>See Moodle for Web-based materials Required Textbook Reading Chapter 31 in <i>Lippincott's Illustrated Review: Pharmacology</i></p>