

ODESSA COLLEGE ASSOCIATE DEGREE NURSING PROGRAM
SYLLABUS RNSG 1201
SPRING – 2012

COURSE TITLE:	PHARMACOLOGY
CREDIT:	TWO HOURS
PLACEMENT:	FIRST SEMESTER OF NURSING PROGRAM; MAY BE TAKEN PRIOR TO PROGRAM ADMISSION
PREREQUISITES:	BIOL 2401 OR CONSENT OF DEPARTMENT
COREQUISITES:	BIOL 2402 OR PROGRAM ADMISSION WITH RNSG 1215, RNSG 1105, RNSG 1309, RNSG 1341, RNSG 1160, AND RNSG 1260

LICENSING/CERTIFICATION BOARD: TEXAS BOARD OF NURSING (BON)

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COURSE LEVEL: Introductory

COURSE DESCRIPTION: Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of drug classifications. Content includes the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. This course lends itself to either a blocked or integrated approach.

END-OF-COURSE OUTCOMES: Identify the roles and responsibilities of the professional nurse in administering pharmacological agents; and explain the safe utilization of medications.

COURSE OBJECTIVES: Course Objectives utilize the framework of Differentiated Entry Level Competencies of Graduates of Texas Nursing Programs. At the completion of the course, the student should be able to: (PO=Corresponding Program Objective)

As Provider of Care:

1. Define terms, concepts, and basic processes associated with drug therapy. (PO 1, 3)
2. Recognize health data of clients as it applies to drug administration and evaluation of side effects and actions.(PO 1, 3, 7)
3. Describe the pathophysiology of selected conditions for which pharmacotherapy is commonly used.(PO 1, 2, 3)
4. Identify client-related and drug-related factors that influence drug effects. (PO 1, 7)
5. Discuss principles of therapy with major drug groups in relation to drug selection, dosage, route, and use in special populations (e.g., children, older adults, clients with impaired renal or hepatic function) (PO 1, 2)

As Member of a Profession:

6. State the legal parameters of professional nursing practice involving pharmacotherapeutics, including those specified in the Nursing Practice Act. (PO 3, 12)
7. Describe the professional attributes of nursing care for clients receiving drug therapy. (PO 3)

As Coordinator of Care:

8. Recognize the interdisciplinary relationships between the nurse and other members of the health care team related to planning and delivery of drug therapy. (PO 9)

TEACHING/LEARNING METHODS: Lecture, classroom discussion and online discussion boards, power points, worksheets, and hyperlinks.

EVALUATION AND GRADING: This is a Nursing Course. The grading policy for the Associate Degree Nursing Program is followed. No assignments or tests are optional. Components of student evaluation include the following:

Unit Exams (6)	10% each	60%
Assignments		10%
Comprehensive Final Exam (includes unit 7)		<u>30%</u>
TOTAL		100%

There will be six unit exams consisting of approximately 50 questions each. Each exam will cover several chapters. The comprehensive final exam consists of *approximately* 100 questions, including unit seven. Questions may be multiple-choice, matching, fill in the blank or true/false. A missed exam must be made up within the scheduled week ****See Course Policies: Make-up exams.** There will be no review done after a unit test, until all students in all sections of the course have taken the test; and there will be no review of the final exam. You must notify the instructor if and when you are unable to take an exam **BEFORE** the exam date.

Assignments will be in class or online (blackboard) discussions, quizzes, and other activities. **Face-to-face** discussions will be graded based upon your participation and quiz grades in class. Missed classroom assignments cannot be made up. **Online** discussions will consist of responses to instructor questions and responses to other students; online *assignments are due by midnight Sunday prior to each unit exam. Work turned in after midnight on Monday will receive a zero.* Further instructions will be posted on Blackboard. Assignments will constitute 10% of your grade. Weekly grades/feedback will be provided to you by Monday following exams and assignment deadlines unless otherwise announced.

Grading: The minimum passing grade is a 75% which is consistent with all Nursing / RNSG courses. Grades will not be rounded up to passing. This means that a grade of 74.5, 74.6, 74.7, 74.8, & 74.9 will not be rounded up to 75.

Academic Alerts: Academic alerts via email and/or hard copy are issued when a course grade falls below passing (to include all grades up to that point in the semester). Alerts will be reissued after each Unit Exam as long as the course grade remains below passing. ***It is the student's responsibility to contact the instructor for assistance.***

Note to Students: Check the **syllabus**, course calendar, email and announcements often for important information and dates. Use "Unit Objectives" (see below) to obtain required chapter information. Important information is summarized in Boxes and Tables in the text, Instructor provided Notes, and in Power Points. Helpful: "Review and Application Exercises" at the end of each chapter (answers on Student Resource CD, with your text book), the textbook Study Guide, and Exam Reviews.

Essential to success on exams: Studying the drugs by classification and prototype, Assignments, Discussions and Reviews. ALL students will be allowed to bring a single 3x5 card with notes front and back to all exams including the final. Students are responsible for attaining all pertinent information required for this course.

Online Students: Remember, “online” does not mean self-paced so **deadlines for reading assignments, other assignments and exams are NOT optional. Prior to taking the first exam you will need to download the Respondus Lockdown Browser on your computer (it is already on OC computers). You will need this for each exam. Instructions for download appear on Blackboard.**

REQUIRED TEXTBOOKS:

Abrams, A.C., Pennington, S. S., & Lammon, C. B. (2009). Clinical drug therapy: Rationales for nursing practice. 9th edition. Lippincott Williams & Wilkins: Philadelphia.

Deglin, J. & Vallerand, A. (2011). *Davis Drug Guide for Nurses* (12th Ed.). Davis: Philadelphia.

RECOMMENDED RESOURCES:

Mosby’s Medical Dictionary, Taber’s Medical Dictionary, or other reputable medical dictionary. You may also find Merck Manual online to be helpful. The student is responsible for obtaining information about terms, diseases and conditions treated by drug classifications covered within this course; AND the Study Guide – to accompany Clinical Drug Therapy.

UNIT OBJECTIVES:

Unit I (Chapters 1-8)

Chapter 1 Introduction to Pharmacology

1. Differentiate between pharmacology and drug therapy.
2. Distinguish between generic and trade names of drugs. Define a prototypical drug.
3. Select Authoritative sources for drug information, and learn where to locate important drug information in each source.
4. Discuss major drug laws and standards and the role of the Food and Drug Administration.
5. Discuss the main categories of controlled substances in relation to therapeutic use and potential for abuse.
6. Identify nursing responsibilities in handling controlled substances correctly.
7. Discuss the potential impact of drug costs on drug therapy regimens.
8. Develop techniques for learning about drugs and using them in patient care.

Chapter 2 Basic Concepts and Processes

1. Review cellular physiology in relation to drug therapy.
2. Review the pathways and mechanisms by which drugs cross biologic membranes and move through the body.
3. Discuss each process of pharmacokinetics.
4. Discuss the clinical usefulness of measuring serum drug levels.
5. Review major characteristics of the receptor theory of drug action.
6. Discuss drug-related and patient-related variables that affect drug actions.
7. Discuss the differences between agonist drugs and antagonist drugs.
8. Identify signs & symptoms that may occur with adverse drug effects on major body systems.
9. Discuss general management of drug overdose and toxicity; and selected antidotes.

Skip Chapter 3 EXCEPT (p. 28, Legal Responsibilities)

1. Discuss legal aspects of handling controlled substances.

Chapter 4 Nursing Process in Drug Therapy

1. Identify the 5 steps of the Nursing Process. Differentiate the “thinking” and “action” phases.
2. Assess patients for conditions and factors that are likely to influence drug effects. Include lab values to assess. Review Patient Teaching Guidelines.
3. Identify nondrug interventions to prevent or decrease the need for drug therapy.
4. Discuss general principles of drug therapy including interventions to increase therapeutic effects and decrease adverse effects of drug therapy.
5. Discuss guidelines for rational choices of drugs, dosages, routes, and times of administration.
6. Describe how to evaluate clients for therapeutic and adverse responses to drug therapy.
7. Identify major considerations in drug therapy for children and older adults.
8. Discuss major considerations for patients with impaired renal or hepatic function, or critical illness.

Chapter 5 Physiology of the CNS

1. Describe the process of neurotransmission.
2. Describe major neurotransmitters and their roles in central nervous system (CNS) functioning.
3. Discuss signs and symptoms of mild, moderate, and severe CNS depression.

Chapter 6 Opioid Analgesics and Pain Management

1. Discuss major types and characteristics of pain and the nurse’s role in assessing and managing patients’ pain.
2. List mechanism of action, indications for use and major adverse effects of opioid analgesics. Describe morphine as the prototype of opioid analgesics.
3. Describe why higher doses of opioid analgesics are needed when the drugs are given orally.
4. Assess pain level, level of consciousness and respiratory status before and after administering opioids.
5. Describe signs and symptoms of opioid overdose, toxicity and withdrawal and the treatment of each.
6. Teach clients about safe, effective use of opioid analgesics.

Chapter 7 Analgesic, Antipyretic, Anti-Inflammatory, & Related Drugs

1. Review the role of prostaglandins in the etiology of pain, fever, and inflammation.
2. Discuss mechanism of action, indications for use, contraindications to use, and principles of therapy including nursing actions for aspirin and other non-steroidal anti-inflammatory drugs (NSAID’s).
3. Find anti-inflammatory drugs in your nursing drug handbook.
4. Compare and contrast Acetaminophen with Aspirin and other NSAIDs in terms of indications for use, adverse effects and patient teaching. Discuss recognition and management of acetaminophen toxicity.
5. Differentiate among antiplatelet, analgesic, and anti-inflammatory doses of aspirin.
6. Differentiate between nonselective NSAID’s and cyclooxygenase-2 inhibitor celecoxib.

Chapter 8 Antianxiety & Sedative-Hypnotic Drugs

1. Discuss characteristics, sources, signs and symptoms of anxiety.
2. Discuss functions of sleep and consequences of sleep deprivation.

3. Describe nondrug interventions to decrease anxiety and insomnia.
4. List characteristics of benzodiazepines, antianxiety and hypnotic drugs; include indication for use, mechanism of action, nursing process implications, and potential for abuse and dependence.
5. Discuss treatment measures for benzodiazepine overdose including use of flumazenil (Romazicon).
6. Teach patients guidelines for rational, safe use of antianxiety and sedative-hypnotic drugs.

UNIT I EXAM

Unit II (Chapters 9-13, & 16-18)

Chapter 9 Antipsychotic Drugs

1. Discuss common manifestations of psychotic disorders, including schizophrenia.
2. Discuss characteristics of phenothiazines and related antipsychotics.
3. Describe the main elements of acute and long term treatment of psychotic disorders.
4. State interventions to decrease adverse effects of antipsychotic drugs.

Chapter 10 Antidepressants and Mood Stabilizers

1. Describe major features of depression and bipolar disorder.
2. Discuss mechanism of action, indications for use, adverse effects, principles of therapy, and nursing actions for antidepressants.
3. Compare and contrast selective serotonin reuptake inhibitors (SSRIs) with tricyclic antidepressants (TCAs).
4. Identify the different categories of antidepressants: SSRIs, TCAs, SNRIs, MAOIs and other atypical antidepressants.

Chapter 11 Antiseizure Drugs

1. Identify types and potential causes of seizures.
2. Discuss major factors that influence choice of an antiseizure drug for a client with a seizure disorder.
3. Differentiate characteristics and effects of commonly used antiseizure drugs.
4. Describe strategies for prevention and treatment of status epilepticus.

Chapter 12 Antiparkinson Drugs

1. Describe major characteristics of Parkinson's disease.
2. Differentiate the types of commonly used antiparkinson drugs.
3. Discuss therapeutic and adverse effects of dopaminergic and anticholinergic drugs.

Chapter 13 Skeletal Muscle Relaxants

1. Discuss common symptoms & disorders for which skeletal muscle relaxants are used.
2. Differentiate uses and effects of selected skeletal muscle relaxants.
3. Describe nonpharmacologic interventions to relieve muscle spasm and spasticity.
4. Review nursing actions for patients taking skeletal muscle relaxants.

Chapter 16 Physiology of the Autonomic Nervous System (ANS)

1. Identify physiologic effects and functions of the sympathetic nervous system.
2. Identify physiologic effects and functions of the parasympathetic nervous system.
3. Describe signal events that occur when receptors of the ANS are stimulated.
4. Identify general characteristics of drugs affecting the ANS.

Chapter 17 Adrenergic Drugs

1. Identify effects produced by stimulation of alpha- and beta-adrenergic receptors.
2. Discuss use of epinephrine to treat anaphylactic shock, acute bronchospams, and cardiac arrest.
3. Identify clients at risk for adverse effects associated with adrenergic drugs.
4. Discuss commonly used over-the-counter preparations containing adrenergic drugs.
5. Describe signs and symptoms of non-catecholamine adrenergic drug toxicity.
6. Discuss treatment of overdose with non-catecholamine adrenergic drugs.
7. Teach patient about the safe, effective use of adrenergic drugs, antianxiety drugs and sedative-hypnotic drugs.
8. Discuss principles of therapy and nursing process for using adrenergic drugs in special populations.

Chapter 18 Antiadrenergic Drugs

1. List effects on body tissues, indications for use, nursing actions, principles of therapy and observation of client response to antiadrenergic drugs.
2. Compare and contrast beta-adrenergic blocking drugs in terms of cardioselectivity, indications for use, and adverse effects.
3. Discuss client education regarding safe, effective use of antiadrenergic drugs.
4. Discuss principles of therapy and nursing process for using antiadrenergic drugs in special populations.

UNIT II EXAM

Skip chapters 14 & 15

Unit III Chapters 19-20 & 23-26

Chapter 19 Cholinergic Drugs

1. Describe effects and indication for use of cholinergic drugs. Locate two drugs from this class in your drug handbook.
2. Describe major nursing care for clients receiving cholinergic drugs.
3. Describe signs, symptoms, and treatment of overdose with cholinergic drugs.
4. Discuss atropine and pralidoxime as antidotes for cholinergic drugs.
5. Discuss drug therapy for myasthenia gravis.
6. Discuss the use of cholinergic drugs for paralytic ileus and urinary retention.
7. Discuss drug therapy for Alzheimer's Dementia.
8. Discuss principles of therapy for using cholinergic drugs in special populations.
9. Teach patients about safe, effective use of cholinergic drugs.

Chapter 20 Anticholinergic Drugs

1. List effects on body tissues, indications for use, nursing actions, and observation of patient response for anticholinergic drugs.
2. Explain uses, indications, and precautions for Atropine as the prototype of anticholinergic drugs. Locate Atropine in your drug handbook.
3. Describe signs and symptoms of atropine or anticholinergic drug overdose and its treatment.
4. Discuss clinical disorders in which anticholinergic drugs are used.
5. Describe the mechanism by which atropine relieves bradycardia.
6. Discuss principles of therapy and nursing actions for using anticholinergic drugs in special populations.
7. Teach patients about the safe, effective use of anticholinergic drugs.

Skip Chapters 21 & 22

Chapter 23 Corticosteroids

1. Review the physiologic effects of endogenous corticosteroids
2. Discuss clinical indications for use of exogenous corticosteroids.
3. Differentiate between short-term and long-term corticosteroid therapy.
4. State the rationale for giving corticosteroids topically when possible rather than systemically. Locate corticosteroids in your drug handbook.
5. Recognize at least 8 adverse effects of long term corticosteroid therapy.
6. Analyze the use other drugs and interventions to decrease the need for corticosteroids.
7. Discuss the use of corticosteroids in selected populations and conditions.
8. Apply the nursing process to a patient receiving long term systemic corticosteroid therapy, including teaching needs.

Chapter 24 Thyroid and Antithyroid Drugs

1. Discuss physiologic effects of thyroid hormone.
2. Identify subclinical, symptomatic, and severe effects of inadequate or excessive thyroid hormone. Locate thyroid and antithyroid drugs in your drug handbook.
3. Describe characteristics, uses, and effects of thyroid drugs.
4. Describe characteristics, uses, and effects of antithyroid drugs.
5. Discuss the influence of thyroid and antithyroid drugs on the metabolism of other drugs.
6. Describe client teaching related to the use of thyroid and antithyroid drugs.
7. Apply the nursing process to patients receiving thyroid and antithyroid drugs.

Chapter 25 Hormones That Regulate Calcium & Bone Metabolism

1. Describe the roles of parathyroid hormone, calcitonin, and vitamin D in regulating calcium metabolism.
2. Identify individuals at risk for hypocalcemia.
3. Discuss the prevention and treatment of hypocalcemia and osteoporosis.
4. Identify individuals at risk for hypercalcemia.
5. Outline appropriate management strategies of hypercalcemia as a medical emergency.
6. Evaluate the use of calcium and vitamin D supplements, calcitonin, and bisphosphonate drugs in the treatment of osteoporosis.

Chapter 26 Antidiabetic Drugs

1. Describe the major effects of endogenous insulin on body tissues.
2. Discuss insulin and insulin analogs in terms of characteristics and uses.
3. Discuss the relationship among diet, exercise, and drug therapy in controlling diabetes.
4. Discuss mechanisms of action, indications for use, adverse effects, and nursing process implications for different types of oral anti-diabetic agents.
5. Discuss benefits of maintaining glycemic control in preventing complications of diabetes.
6. State reasons for combining insulin with oral agents or combining different types of oral agents. Locate two types of oral hypoglycemic agents in your drug handbook. Locate four types of insulin in your drug handbook; find onset, peak and duration of each.

UNIT III EXAM

Skip Chapters 27 & 28

Unit IV (Chapters 29-36)

Chapter 29 General Characteristics of Antimicrobial Drugs

1. Identify populations who have an increased risk for infection.
2. Discuss common pathogens and methods of infection control.

3. Discuss assessment of clients for local and systemic signs of infection.
4. Describe common and potentially serious adverse effects of antimicrobial drugs.
5. Identify clients at increased risk for adverse reactions to antimicrobial drugs.
6. Discuss guidelines for safe and accurate administration of antibiotics.
7. Discuss the use of antimicrobial drugs in special populations.

Chapter 30 Beta-Lactam Antibacterials: Penicillins, Cephalosporins, and Other Drugs

1. Describe general characteristics of beta-lactam antibacterials.
2. Learn to assess patients for drug allergies before giving antibiotics.
3. State the rationale of combining penicillin with a beta-lactamase inhibitor drug.
4. Discuss similarities and differences between Cephalosporins and penicillins.
5. Discuss antibacterial spectrum, indications for use, and adverse effects of Cephalosporins. Locate penicillin and cephalosporin drugs in your drug handbook.
6. Describe major characteristics of carbapenem and monobactam drugs.
7. Apply principles of beta-lactam antibacterial therapy.

Chapter 31 Aminoglycosides and Fluoroquinolones

1. Discuss the aminoglycoside and fluoroquinolone drug groups including a basic description, indications for use, and contraindications to use.
2. Discuss the importance of measuring serum drug levels during aminoglycoside therapy.
3. Describe measures to decrease nephrotoxicity and ototoxicity with aminoglycosides.
4. Discuss principles of using aminoglycosides and fluoroquinolones in renal impairment and critical illness. Locate these drug classes in your drug handbook.

Chapter 32 Tetracyclines, Sulfonamides, and Urinary Agents

1. Discuss major characteristics and clinical uses of tetracyclines.
2. Recognize doxycycline as the drug of choice for patients with renal impairment.
3. Discuss characteristics, clinical uses, adverse effects, and nursing implications of selected sulfonamides. Locate tetracyclines and sulfonamides in your drug handbook.
4. Describe the use of urinary antiseptics in the treatment of urinary tract infections.
5. Teach patients strategies for preventing, recognizing, and treating urinary tract infections.

Chapter 33 Macrolides, Ketolides, and Miscellaneous Antibacterials

1. Discuss the drug groups Macrolides, Ketolides, and Miscellaneous Antibacterials including a basic description, indications, and contraindications for use.
2. Locate Macrolide and Ketolide drug groups in your drug handbook.

Chapter 34 Drugs for Tuberculosis and *Mycobacterium avium* Complex Disease

1. Describe characteristics of latent, active, and drug-resistant tuberculosis infections.
2. List characteristics, uses, effects, and nursing implications of using primary antitubercular drugs. Locate INH, and Mycobutin in your drug handbook.
3. Identify populations at high risk for developing TB.

UNIT IV EXAM

Unit V

Chapter 35 Antiviral Drugs

1. Describe characteristics of viruses and common viral infections.

2. Discuss the principles of therapy for antiviral drugs (include indications & adverse effects), and identify at least two commonly used antiviral drugs. Locate two antiviral drugs in your drug handbook.

Chapter 36 Antifungal Drugs

1. Describe characteristics of fungi and fungal infections.
2. Discuss antibacterial drug therapy and immunosuppression as risk factors for development of fungal infections.
3. Describe commonly used antifungal drugs in terms of indications for use, adverse effects, and nursing process.
4. Differentiate between the adverse effects of *systemic* and *topical* antifungal drugs.
5. Teach patients about prevention and treatment of fungal infections.

Skip Chapters 37 through 42

Chapter 43 Physiology of the Respiratory System

1. Review roles and functions of respiratory tract structures in oxygenating body tissues.
2. Describe the role of carbon dioxide in respiration.
3. List common signs and symptoms associated with respiratory function.
4. Identify general categories of drugs used to treat respiratory disorders.

Chapter 44 Drugs for Asthma and Other Bronchoconstrictive Disorders

1. Describe pathophysiologic characteristics of bronchoconstrictive disorders.
2. Discuss the uses and effects of bronchodilating and anti-inflammatory drugs.
3. Explain the nursing process in relation to these drugs.
4. Discuss the principles of therapy for these drugs.
5. Differentiate between “quick relief” and long-term control of asthma symptoms.
6. Discuss the use of antiasthmatic drugs in special populations.
7. Teach patients self-care and long-term control measures.

Chapter 45 Antihistamines and Allergic Disorders

1. Differentiate effects of histamine on selected body tissues.
2. Identify histamine receptors.
3. Describe types of hypersensitivity or allergic reactions.
4. Discuss allergic rhinitis, allergic contact dermatitis, and drug allergies as conditions for which antihistamines are commonly used.
5. Identify effects of histamine that are blocked by histamine (H1) receptor antagonist drugs.
6. Differentiate between first- and second-generation antihistamines.
7. Describe antihistamines in terms of indications for use, adverse effects, and nursing process implications.

Chapter 46 Nasal Decongestants, Antitussives, and Cold Remedies

1. Discuss common respiratory disorders and their symptoms.
2. Review decongestants and adverse effects of adrenergic drugs.
3. Describe general characteristics and effects of antitussive agents.
4. Discuss the advantages and disadvantages of using combination products to treat the common cold.
5. Evaluate the use of over-the-counter allergy, cold, cough, and sinus remedies.
6. Use the nursing process in the care of individuals with the common cold.

UNIT V EXAM

Unit VI

Chapter 47 Physiology of the Cardiovascular System

1. Review the functions of the heart, blood vessels, and blood in supplying oxygen and nutrients to body tissue.
2. Describe the role of vascular endothelium in maintaining homeostasis.
3. Discuss atherosclerosis and the basic disorder causing many cardiovascular disorders for which drug therapy is required.
4. List cardiovascular disorders for which drug therapy is a major treatment modality.

Chapter 48 Drug Therapy for Heart Failure

1. Describe the major manifestations and causes of heart failure (HF).
2. Differentiate the types of drugs used to treat HF.
3. List characteristic effects of Digoxin on myocardial contractility and cardiac conduction; list indications for use, principles of therapy, and nursing process implications.
4. Discuss Indications for use and Contraindications to use of Digoxin.
5. Identify signs & symptoms of Digoxin toxicity; & therapeutic and toxic serum levels.
6. Identify clients at risk for development of Digoxin toxicity.
7. Discuss nursing interventions to prevent or minimize Digoxin toxicity.

Chapter 49 Antidysrhythmic Drug

1. Discuss cardiac electrophysiology and identify two types of cardiac dysrhythmias.
2. Describe general characteristics and major classifications of antidysrhythmic drugs.
3. Discuss prototypical antidysrhythmic drugs.
4. Discuss general considerations for the client taking these drugs.

Chapter 50 Antianginal Drugs

1. Describe the types, causes, and effects of angina pectoris.
2. Describe the general characteristics and types of antianginal drugs.
3. Discuss nitrate antianginal drugs.
4. Discuss effects of calcium channel blockers on body tissues, their clinical indications for use, common adverse effects, and nursing process implications.

Skip Chapter 51

Chapter 52 Antihypertensive Drugs

1. Describe hypertension and factors that control blood pressure.
2. Review the effects of alpha-adrenergic blockers, beta-adrenergic blockers, calcium channel blockers, and diuretics in hypertension.
3. Discuss mechanism of action, indications for use, adverse effects, and nursing process implications of angiotensin-converting enzyme inhibitors and angiotensin II receptor blockers.
4. Describe rationale for using combination drugs in the management of hypertension.

Chapter 53 Diuretics

1. Review renal physiology.
2. List mechanism of action, indications for use, principles of therapy, and nursing process implications of diuretics.
3. Recognize commonly used potassium-wasting and potassium-sparing diuretics.

4. Discuss the rationale for using combination products containing a potassium-wasting and a potassium-sparing diuretic.
5. Discuss the rationale for concomitant use of a loop diuretic and a thiazide or related diuretic.

Chapter 54 Drugs That Affect Blood Coagulation

1. Review the physiology of hemostasis and thrombosis.
2. Describe characteristics and uses of anticoagulant, antiplatelet, and thrombolytic agents.
3. Compare and contrast heparin and warfarin in terms of indications for use, onset and duration of action, route of administration, blood tests used to monitor effects, and nursing implications.
4. Discuss indications for use and effects on blood coagulation of antiplatelet agents.
5. Describe indications and contraindications for use, routes of administration, and major adverse effects of thrombolytic agents.
6. Describe systemic hemostatic agents for treating overdoses of anticoagulant and thrombolytic drugs (e.g.; antidotes for warfarin and heparin).

UNIT VI EXAM

UNIT VII

Chapter 55 Drugs for Dyslipidemia

1. Discuss the role of dyslipidemia in the etiology of atherosclerosis.
2. Describe dyslipidemic drugs in terms of mechanism of action, indications for use, and major adverse effects.

Chapter 56 Physiology of the Digestive System (review on your own)

1. Review the digestive system and describe effects of drugs on the digestive system.

Skip Chapters 57 & 58

Chapter 59 Drugs Used for Peptic Ulcer and Acid Reflux Disorder

1. Describe peptic ulcer disease and gastroesophageal reflux disease (GERD).
2. Differentiate between the types of drugs used to treat peptic ulcers and acid reflux disorders.
3. Discuss the advantages and disadvantages of proton pump inhibitors.
4. Differentiate between prescription and over-the-counter uses of histamine 2 receptor blocking agents.
5. Describe characteristics, uses, and effects of antacids.
6. Discuss rationale for using combination antacid products.

Chapter 60 Laxatives and Cathartics

1. Differentiate between the major types of laxatives.
2. Describe the consequences of occasional use versus chronic use of laxatives.
3. Discuss rational choices of laxatives for selected client populations or purposes.
4. Discuss bulk-forming laxatives as the most physiologic agents.
5. Discuss possible reasons for and hazards of overuse and abuse of laxatives.

Chapter 61 Antidiarrheals

1. Identify clients at risk for development of diarrhea.
2. Discuss guidelines for assessing diarrhea.
3. Describe types of diarrhea in which antidiarrheal drug therapy may or may not be indicated.
4. Discuss characteristics, effects, and nursing implications of commonly used antidiarrheals.

Chapter 62 Antiemetics

1. Identify clients at risk for developing nausea and vomiting.
2. Discuss guidelines for preventing, minimizing, or treating nausea and vomiting.
3. Differentiate the major types of antiemetic drugs.
4. Discuss characteristics, effects, and nursing process implications of antiemetic drugs.

The contents of the last five chapters will be tested on the Final Exam.

COMPREHENSIVE FINAL EXAM - TBA

COURSE POLICIES:

ALL STUDENTS ARE EXPECTED TO:

1. Adhere to requirements delineated in the Nursing Student Handbook (available on the Nursing web page to all students on the OC website).
2. Achieve a grade of at least **75** in RNSG 1201 to pass the course (standard for all RNSG courses).
3. **Refer to the course calendar for class schedule and units to be studied.** Utilize unit objectives for study. These objectives are statements of the minimum competencies to be achieved. Read and study references and learn unfamiliar terms *prior to class*. Remember, you will receive from your education what **you** put into it.
4. The student is responsible for any material covered through audio-visual media, independent study, required readings, and discussions. In the case of contradictory information, and *unless otherwise directed*, the course textbooks are the authority to be used.
5. **Make-up exams:** Please notify the instructor if you have to miss an exam *before* the exam date. Students are allowed **one** make up exam. A second missed exam will be given a **zero**. Make up exams will be scheduled at the instructor's convenience and must be within one week of the scheduled exam. The exam may be in a different format, such as essay or fill-in-the-blank and will cover the same material as the corresponding unit exam. Exam format is at the discretion of the instructor.
On-line Students: You may experience being "bumped off" during an exam. If this occurs the only recourse is for the instructor to clear the attempt at the exam which means the student must contact the instructor and will restart the exam. If you click the "back" button on the tool bar at the top of the screen you will be bumped off of the test. Each student will have no more than two (2) tests cleared due to being "bumped off", for the semester (not including the final exam). You cannot stop and restart an exam; once the exam is begun, you must complete it.
6. E-mail correspondence will be through your OC student e-mail only, not your personal e-mail address. You must activate your OC e-mail account. If you have problems with your e-mail, contact the Student Success Center at 432-335-6673. Please access and check your OC e-mail daily for information or updates to this course and use your campus e-mail to correspond with your instructor by e-mail. Announcements may be sent via email as well.
7. All students: Blackboard is used as a communication tool for this course. Course materials and assignments will be posted on Blackboard. You will need to check it frequently for announcements, any documents you may need, or information that you may need. Students can use this Blackboard for communication with the instructor as well.

ATTENDANCE POLICY: All students are expected to attend all classes and will be held accountable for all material presented or assigned in this course in determining course grades. Attendance policy will follow the same guidelines as listed in the college catalog. This policy states that any student who misses as much as 20 percent of scheduled class time in any semester should review his or her standing in the class with the instructor and determine whether to continue in class or withdraw. Nurses and nursing students are expected to conduct themselves in a professional manner. You will be held to those

expectations as a student nurse and in this course. Therefore you are expected to notify your instructor whenever you will not be able to attend class. You should do so prior to the start of class and you are expected to be on time.

On-Campus students: There will be a sign in sheet for each class day. For safety reasons, according to OC safety policy, the door will be closed and locked 5 minutes after class begins.

Online students: **Attendance** will be “taken” by using the discussion board or other assignments via Blackboard or email (logging in). Every other week, pertinent questions will be posted by the instructor for you to answer and/or discuss. Other assignments may be substituted for these discussions at the instructor’s discretion in order to enhance your learning and “take” attendance. If you have an emergency, contact the instructor immediately or you will be held liable for the missed assignment for the week. Attendance is expected per the above policy and the 20 percent guideline applies.

Planning for success: You should spend a minimum of 3 hours per week studying for every one credit hour per course. For this course you should be spending the equivalent of 2 hours per week of class time and 6 hours per week of study time which equals a minimum of 8 hours per week. Just remember, pace yourself, and the more you *use the information*, the better you will do! Remember: refer to the syllabus, course calendar, notes and announcements often.

Exams: There will be Six Unit Exams and a Comprehensive Final. On campus students will be allowed one hour to take unit exams. Online students will be given a little longer to allow for questions to load on their computers. Questions may be multiple choice, fill in the blank, matching, or true/false. There are 6 Unit Tests, worth 10% each, a total of 60% and the final exam is worth 30% of your course grade. Students will be allowed 2 hours to complete the final exam. *All students will be allowed to bring a single 3 x 5 card with notes front and back to the final exam.* Students are allowed to review exam questions after each unit exam. To review an exam, the student must make an appointment with the instructor within one week of the exam unless prior arrangements are made with the instructor. If exam questions are challenged, students must submit their challenge in writing. There will be no review or challenge of questions for the final exam.

On-Campus students will take all exams in the classroom. You must have a red and white ParScore sheet, Form No. F-288-PAR-L (large one for first exam). You may mark on your test booklet. Make sure you mark your scantron correctly. Once it is turned in you will not be allowed to change anything. You will be allowed to bring a single 3 x 5 card as stated above for all exams.

Online students: You may take an exam **one time only** and you will be able to see only one question at a time. “Back tracking” will not be permitted. This means you must answer each question before going on to the next question. The exam will be timed as indicated above. Students will have a time period specified by the instructor in which to take unit exams as indicated on the course calendar.

See Course Calendar below for the schedule of units, assignment and exam dates.

Course Calendar

Unit I (Module 1) Jan 18-24 Syllabus Review Introduction to Pharmacology*** Basic Concepts & Processes*** Nursing Process in Drug Therapy***	First day of class: Wed 1/18/2012 Chapters 1, 2, 4 Skip chapter 3 EXCEPT p. 28, Legal Responsibilities
(Module 2) Jan 25-31 Physiology of the CNS (<i>on your own</i>) *** Opioid Analgesics and Opioid Antagonists Analgesic, Antipyretic, Anti-Inflammatory, & Related Drugs Antianxiety & Sedative-Hypnotic Drugs	Chapters 5, 6, 7, 8 Assignments due by midnight, Sunday prior to Exam
UNIT 1 EXAM – W. Feb 1 st	See exam review & discussions
5:30 PM On Campus	Exam Times TBA Online
Unit II (Module 3) Feb 1-7 Antipsychotic Drugs Antidepressants and Mood Stabilizers Antiseizure Drugs	Chapters 9, 10, 11, 12
(Module 4) Feb 8-14 Antiparkinson Drugs Skeletal Muscle Relaxants Physiology of the ANS (<i>on your own</i>) *** Adrenergic Drugs	Chapters 13, 16, 17, 18 Skip chapters 14 & 15 (review as needed – not tested on exams) Assignments due by midnight, Sunday prior to Exam
UNIT 2 EXAM – W. Feb 13 th	See exam review & discussions
5:30 PM On Campus	Exam Times TBA Online
Unit III (Module 5) Feb 15-21 Antiadrenergic Drugs Cholinergic Drugs Anticholinergic Drugs	Chapters 19, 20 Skip chapters 21 & 22
(Module 6) Feb 22-28 Corticosteroids Thyroid and Antithyroid Drugs Hormones That Regulate Calcium and Bone Metabolism Antidiabetic Drugs	Chapters 23, 24, 25, 26 Assignments due by midnight, Sunday prior to Exam
UNIT 3 EXAM – W. Feb 29 th	See exam review & discussions
5:30 PM On Campus	Exam Times TBA Online
Unit IV (Module 7) Feb 29-Mar 6 General Characteristics of Antimicrobial Drugs Beta-Lactam Antibacterials: Penicillins, Cephalosporins, and Other Drugs Aminoglycosides and Fluoroquinolones	Skip chapters 27 & 28 Chapters 29, 30, 31
(Module 8) Mar 7-11 Tetracyclines, Sulfonamides, and Urinary Agents Macrolides, Ketolides, and Miscellaneous Drugs for Tuberculosis & <i>M. avium</i> Complex	Chapters 32, 33, 34 Assignments due by midnight, Sunday prior to Exam
UNIT 4 EXAM – W. Mar 21 st	See exam review & discussions
5:30 PM On Campus	Exam Times TBA Online

Spring Break – March 12th – 18th No classes	
Unit V (Module 9) Mar 21-27 Antiviral Drugs Antifungal Drugs Physiology of the Respiratory System (on your own)***	Chapters 35, 36 & 43 Skip chapters 37 – 42
(Module 10) Mar 28-Apr 3 Drugs for Asthma and other Bronchoconstrictive Disorders Antihistamines and Allergic Disorders Nasal Decongestants, Antitussives, and Cold Remedies	Chapters 44, 45, 46 Assignments due by midnight, Sunday prior to Exam
UNIT 5 EXAM – W. Apr 4 th	See exam review & discussions
5:30 PM On Campus	Exam Times TBA Online
Unit VI (Module 11) Apr 4-10 Physiology of the Cardiovascular System (on your own)*** Drug Therapy for Heart Failure Antidysrhythmic Drugs Antianginal Drugs	Chapters 47, 48, 49, 50 Last Day to Drop or Withdraw with a “W” April 13 (Fri)
(Module 12) Apr 11-17 Antihypertensive Drugs Diuretics Drugs That Affect Blood Coagulation	Chapters 52, 53, 54 Assignments due by midnight, Sunday prior to Exam
UNIT 6 EXAM – W. Apr 18 th	See exam review & discussions
5:30 PM On Campus	Exam Times TBA Online
Unit VII (Module 13) Apr 18-24 Drugs for Dyslipidemia (Review Ch. 55, Digestive System on your own)*** Drugs Used for Peptic Ulcer and Acid Reflux Disorders	Last Official OC Class Day Sat, May 5th Chapters 55, 56, 59 Skip chapters 51, 56 – 58, & 63-65 Final Unit will be tested on the Final Exam
(Module 14) Apr 25-May 1 Laxatives and Cathartics Antidiarrheals Antiemetics	Chapter 60, 61, 62 <u>Assignments due by midnight, Sunday, May 6th</u>
Final Exam Review available to all students:	Wed, May 2nd in CT 217, 5-6pm & 6:15-7:15pm
FINAL EXAM – Wed, May 9 th	Tue, May 8 th & Wed, May 9 th
5:30-7:30 PM – On Campus Class	Times TBA on campus – Online Classes