



Pharmacology II NURS 123 Course Syllabus_rev 02 07 2022

Basic Course Information

Semester:	SPRING 2022	Instructor Name:	Julie Kunath MS APRN AGPCNP-AG AACNS-AG CCRN-K CNE
Course Title & #:	Pharmacology II NURS 123	Email:	Julie.kunath@imperial.edu
CRN #:	20559	Webpage (optional):	CANVAS
Classroom:	Bldg. 300; room 313A	Office #:	Available via Zoom, Pronto, Text, etc.
Class Dates:	February 15 – June 10, 2022	Office Hours:	Mondays 1405-1605, Wednesdays 1330-1430, Thursdays 1330-1400, Fridays 1000 - 1100
Class Days:	Tuesdays	Office Phone #:	(760) 355 - 6422
Class Times:	0800 - 0925	Emergency Contact:	Nursing Office (760) 355 - 6348
Units:	1.5	Class Format:	In-person

Course Description

The course addresses the principles of medication therapy for acute and complex conditions including the effects, actions, algorithms and recommended use of drugs in the treatment of complex patient problems. Safe administration practices and reduction of medication errors will be covered. The student will learn to manage complex medication administration through various routes including intravenous routes. Nursing actions and rationale for nursing actions are explored. Clinical application is integrated into the clinical nursing courses.

Course Prerequisite(s) and/or Corequisite(s)

Prerequisites: Nursing 109 Pharmacology I

Corequisites: Nursing 127 Medical Surgical Nursing I



Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. identify the mechanism of action, use, side effects, and nursing interventions of medications for the CNS, cardiovascular, pulmonary, immune, reproductive and endocrine systems and for anti-infective, oncological, and allergic response medications by passing the final with a 78% or better score.

Course Objectives

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

1. Describe the anatomy and physiology of the CNS, cardiovascular, pulmonary, immune, reproductive, and endocrine systems.
2. Discuss the rationale and benefits of the major classifications of medications by the system they affect and considering oral versus infusion therapy.
3. Discuss the mechanism of action, use, side effects, and nursing interventions of medications for the CNS, cardiovascular, pulmonary, immune, reproductive, and endocrine systems.
4. Explain legal implications related to medication administration by the major classifications of medications covered; i.e. CNS, cardiovascular, pulmonary, immune, reproductive and endocrine systems.
5. Describe the major classifications of medications as they relate to specific body systems for clients of all ages with acute and complex conditions.
6. Demonstrate understanding of cultural-psychosocial aspects of client care related to patient teaching compliance in administration of the major classifications of medication.

Textbooks & Other Resources or Links

REQUIRED

Burchum, J. R., & Rosenthal, L. D. (2021). *Lehne's pharmacology for nursing care* (11th). Elsevier.

- Newest Edition paperback ISBN: 9780323825221
- Newest Edition eBook ISBN: 9780323825245
- Newest Edition Binder Ready Version **ISBN-13:** 978-0323829717
- May use previous (10th) Edition.

Shadow Health Pharmacology Module (will continue from previous semester, do not pay or sign up again)

If you were not in NURS 109 last semester, please contact instructor before purchasing this resource.



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RN Pharmacology for Nursing. ATI nursing education. (Content Mastery Series: Review Module)

ATI: Pharmacology Made Easy (online within ATI package)

SUPPLEMENTAL FREE ONLINE (OER) OPEN EDUCATIONAL RESOURCES

Ernstmeyer, K. and Christman, E. (Eds.). (2020). *Open RN Nursing Pharmacology* by [Chippewa Valley Technical College](#) licensed under [CC BY 4.0](#).

- ISBN 13: 978-1-73491-411-5.

Velarde, G. (2019, May 20). [Pharmacology Notes: Nursing Implications for Clinical Practice](#). OER Commons. (Supplemental)

Course Requirements and Instructional Methods

A. Hours

NURS 123 is a 1.5 unit theory course. Synchronous sessions will be held once a week. A minimum requirement of 4.5 hours of class preparation will be expected each week.

B. Assignments:

Reading, videos, internet resources, and writing assignments are required. Students will be expected to read, understand, and critique information from college level textbooks, nursing journals, or equivalent. Additional reading assignments will be required to supplement textbook material. Writing assignments will reflect the objectives listed and may include, but not be limited to, short essays, posters, and/or professional papers. Outside assignments including but not limited to nursing lectures, independent exercises, and online learning activities may be assigned and are required.

Plagiarism and cheating policies noted in the student handbook and IVC policies will be strictly enforced. Students are expected to develop original work for this course.

Schedule may change at the discretion of the instructor, taking into account the progress of students with the materials. Any change will be announced in class or via email through Canvas. **Students are held responsible for all materials covered in the syllabus and for any changes that are announced in class, sent by email or announced through Canvas.**

It is recommended that if a grade falls below 82% that the student arrange to meet with the faculty member. Faculty can be reached in person (limited), by email, by Zoom appt or during office hours via Zoom to discuss grades or other classroom matters.



The student is responsible for withdrawing (W) from the class before the deadline as outlined on your registration forms. **Failure to pass this class will affect your ability to progress to the next semester.** Students failing or withdrawing must complete a Petition to Re-Enter.

Course Grading Based on Course Objectives

Students must maintain a “C” average grade as determined by the scale below:

A = 93-100%

B = 85-92%

C = 78-84%

F = Below 78%

Grades will not be “rounded”. To advance to the next semester, a “C” or better is required in this course and the co-requisite courses. **The course grade will be computed as follows: 10% from homework/assignments, 10% from quizzes (in class, take-home, or online), 45% will come from an average of the three exams prior to the final exam, and 35% of the course grade will come from the final exam.**

Homework/assignments/ATI	10%	
Quizzes	10%	
Exam 1	15%	
Exam 2	15%	
Exam 3	15%	
Final Exam	35%	
Total	100%	

All of the following must be attained to successfully pass this course:

- Theory (exams) grade** must have a **total equivalent of 78% or greater.** This requirement must be met in order to progress to the Final Exam.
- Final Theory Exam score** must be passed at a **78% or greater.**
- Total grade calculation** must be passed at a **78% or greater.**
- Attendance** requirements as noted below **must be met.**

Testing will include no more than 3 examinations in addition to written, demonstration, and oral assignments, and a final examination. Pop quizzes may be included. **EXCEPT FOR UNDER EXTREME CIRCUMSTANCES, THERE WILL BE NO MAKE-UPS FOR TESTS OR QUIZZES MISSED DUE TO ABSENCE.**

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

*****Tentative, subject to change without prior notice*****

Reading and assignments due before class are to be completed so that you may be an active participant in synchronous class sessions and class activities.

SPRING 2022 TUESDAYS @ 0800 – 0925 WEEK/DATE TOPICS	Pre-Class Assignments & TICKETS to ENTER CLASS	Assigned Reading: Lehne’s Pharm Text 10e <i>Lehne’s Pharm Text 11e</i>	ATI
Week 1 February 15 Review Text and Resources for Semester -Seizures Overview and Management -CNS stimulants and depressants -Antidepressants Overview -Bipolar Disorder & mood-stabilizing drugs Overview -Anxiety Disorders Overview and Management	<ul style="list-style-type: none"> - Write down 2 questions you have regarding the class, the syllabus, or the content areas assigned for this week. - Bring paper with these questions to class on Tuesday 2/15 @0800 	10e: Chapters 24, 32, 33, 35, & 36 Chapter 24: Drugs for Seizure Disorders Chapter 32: Antidepressants Chapter 33: Drugs for Bipolar Disorder Chapter 35: Management of Anxiety Disorders Chapter 36: Central Nervous System: Stimulants and Attention-Deficit/Hyperactivity Disorder <i>11e: Chapters 27, 34, 35, 36, 38 & 39</i> <i>Ch 27: Drugs for Seizure Disorders P234</i> <i>Ch 34: Antipsychotic Agents and Their Use in Schizophrenia p334</i> <i>Ch 35: Antidepressants P351</i> <i>Ch 36: Drugs for Bipolar Disorder p372</i>	ATI Pharm Made Easy 4.0 (PME 4.0): MODULE: NEUROLOGICAL SYSTEM (PART 1) <ul style="list-style-type: none"> <input type="checkbox"/> Introduction – The Nervous System, The Brain, Neurons and Neurotransmitters, Autonomic Nervous System, Goal of Drug Therapy <input type="checkbox"/> Drug Therapy for Seizure Disorders <input type="checkbox"/> Drug Therapy for ADHD and Narcolepsy MODULE: NEUROLOGICAL SYSTEM (PART 2) <ul style="list-style-type: none"> <input type="checkbox"/> Drug Therapy for Anxiety Disorders <input type="checkbox"/> Drug Therapy for Depression <input type="checkbox"/> Drug Therapy for Bipolar Disorder <input type="checkbox"/> Drug Therapy for Schizophrenia



		<p><i>Ch 38: Management of Anxiety Disorders p395</i></p> <p><i>Ch 39: Central Nervous System Stimulants and Attention-Deficit/Hyperactivity Disorder</i></p>	
<p>Week 2 February 22</p> <p>Upper & Lower Respiratory Drugs</p> <p>Tuberculosis Management</p> <p>Feb 27, Sunday= last date to drop without receiving a “w”</p>		<p>10e: Chapters 70, 76, 77 & 90</p> <p>Chapter 70: Antihistamines</p> <p>Chapter 77: Drugs for Allergic Rhinitis, Cough, and Colds</p> <p>Chapter 76: Drugs for Asthma and Chronic Obstructive Pulmonary Disease</p> <p>Chapter 90: Antimycobacterial Agents: Drugs for Tuberculosis, Leprosy, and Mycobacterium avium Complex Infection</p> <p><i>11e: Chapters 73, 79, 80, & 94</i></p> <p><i>Ch 73: Antihistamines</i></p> <p><i>Ch 79: Drugs for Asthma & Chronic Obstructive Pulmonary Disease p911</i></p> <p><i>Ch 80: Drugs for Allergic Rhinitis, Cough, and Colds p939</i></p> <p><i>Ch 94: Antimycobacterial Agents p1083</i></p>	<p>ATI Pharm Made Easy:</p> <p>MODULE: RESPIRATORY SYSTEM</p> <p><input type="checkbox"/> Introduction</p> <p><input type="checkbox"/> Drug Therapy for Non-Infectious Lower Respiratory Airflow Disorders</p> <p><input type="checkbox"/> Drug Therapy for Upper Respiratory Disorders</p> <p><input type="checkbox"/> Complete module w/at least 85%</p>
<p>Week 3 March 1st</p> <p>Drugs for Spasticity</p> <p>Drugs for Localized Muscle Spasm</p> <p>Other Centrally Acting Muscle Relaxants</p> <p>Management of Insomnia</p> <p>& Use of Sedative-Hypnotic Drugs</p>		<p>10e: Chapters 25 & 34</p> <p>Chapter 25: Drugs for Muscle Spasm and Spasticity</p> <p>Chapter 34: Sedative-Hypnotic Drugs</p> <p><i>11e: Chapters 28 & 37</i></p> <p><i>Ch 28: Drugs for Muscle Spasm and Spasticity p262</i></p> <p><i>Ch 37: Sedative-Hypnotic Drugs p380</i></p>	<p>ATI Pharm Made Easy:</p> <p>MODULE: NEUROLOGICAL SYSTEM (PART 1)</p> <p><input type="checkbox"/> Drug Therapy for Muscle Spasms</p> <p>ATI Pharm Practice Quiz</p>

Week 4 March 8th	EXAM 1: All content from weeks 1, 2, & 3		
Week 5 March 15th Cyclooxygenase Inhibitors: NSAIDs and Acetaminophen Arthritis/Gout		10e: Chapters 71, 72, 73, & 74 Chapter 71: Cyclooxygenase Inhibitors: Nonsteroidal Anti-Inflammatory Drugs and Acetaminophen Chapter 72: Glucocorticoids in Nonendocrine Disorders Chapter 73: Drug Therapy for Rheumatoid Arthritis Chapter 74: Drug Therapy for Gout	ATI Pharm Made Easy: Pain/Inflammation – sections that cover this week’s readings. Review Musculoskeletal Diseases Patho
Week 6 March 22nd Parkinson Disease and Management Alzheimer’s Disease and Management		10e: Chapter 21 & 22 Chapter 21: Drugs for Parkinson Disease Chapter 22: Drugs for Alzheimer’s Disease	ATI Pharm Made Easy: Neuromuscular Review Parkinson & Alzheimer’s Diseases Patho
Week 7 March 29th <i>(Spring Break week for SDSU)</i> GI PUD meds, Anti-diarrheal & laxatives, anti-emetics		10e: Chapter 78, 79, & 80 Chapter 78: Drugs for Peptic Ulcer Disease Chapter 79: Laxatives Chapter 80: Other Gastrointestinal Drugs	ATI Pharm Made Easy: Gastrointestinal Module 100% Review GI Diseases Patho ATI Practice Exam



<p>Week 8</p> <p>April 5th</p>	<p>EXAM 2: Majority of content will be on weeks 5, 6, & 7.</p>		
<p>Week 9</p> <p>April 12th</p> <p>Cardiovascular Drugs Heart Failure</p>		<p>10e: Chapter 41, 43, 44, 45, 46, 47, & 48</p> <p>Chapter 41: Diuretics</p> <p>Chapter 43: Review of Hemodynamics</p> <p>Chapter 44: Drugs Acting on the Renin-Angiotensin-Aldosterone System</p> <p>Chapter 45: Calcium Channel Blockers</p> <p>Chapter 46: Vasodilators</p> <p>Chapter 47: Drugs for Hypertension</p> <p>Chapter 48: Drugs for Heart Failure</p>	<p>ATI Pharm Made Easy: Cardiovascular</p> <p>Review Cardiovascular Diseases Patho Review Cardiovascular and Renal Physiology</p>
<p>April 19th</p> <p style="background-color: yellow;">IVC Spring Break NO CLASSES</p>			
<p>Week 10</p> <p>April 26th</p> <p>Angina/MI/Coagulation</p> <p>Dysrhythmias/Shock</p>		<p>10e: Chapter 49, 50, 51, 52, & 53</p> <p>Chapter 49: Antidysrhythmic Drugs</p> <p>Chapter 50: Prophylaxis of Atherosclerotic Cardiovascular Disease: Drugs That Help Normalize Cholesterol and Triglyceride Levels</p> <p>Chapter 51: Drugs for Angina Pectoris</p>	<p>ATI Pharm Made Easy: Cardiovascular & Hematology</p> <p>Review Cardiovascular Diseases Patho Quizlet Review</p>



		<p>Chapter 52: Anticoagulant, Antiplatelet, and Thrombolytic Drugs</p> <p>Chapter 53: Management of ST-Elevation Myocardial Infarction</p>	
<p>Week 11</p> <p>May 3rd</p> <p>Hematopoietic Disorders and Management</p>		<p>10e: Chapter 55 & 56</p> <p>Chapter 55: Drugs for Deficiency Anemias</p> <p>Chapter 56: Hematopoietic Agents</p>	<p>ATI Pharm Made Easy: Hematology sections that cover reading content</p> <p>Review Anemia Patho Review Hematopoietic Physiology and Pathophysiology</p>
<p>Week 12</p> <p>May 10th</p>	<p>EXAM 3: Majority of content will be on weeks 9, 10, & 11.</p>		
<p>Week 13</p> <p>May 17th</p> <p>Chemotherapy of Infectious Disease</p> <p>Canvas Review Assignment on Antimicrobial Therapy</p>		<p>Chapter 83, 84, 85, 86, 87, 88, 89, & 91</p> <p>Chapter 83: Basic Principles of Antimicrobial Therapy</p> <p>Chapter 84: Drugs That Weaken the Bacterial Cell Wall I: Penicillins</p> <p>Chapter 85: Drugs That Weaken the Bacterial Cell Wall II: Cephalosporins, Carbapenems, Vancomycin, Telavancin, Aztreonam, and Fosfomycin</p> <p>Chapter 86: Bacteriostatic Inhibitors of Protein Synthesis: Tetracyclines, Macrolides, and Others</p>	<p>ATI Pharm Made Easy: Antimicrobials and all sections that correlate with reading content</p> <p>Review Infectious Diseases Patho</p> <p>ATI Comprehensive Exam 1</p>



		<p>Chapter 87: Aminoglycosides: Bactericidal Inhibitors of Protein Synthesis</p> <p>Chapter 88: Sulfonamides and Trimethoprim</p> <p>Chapter 89: Drug Therapy for Urinary Tract Infections</p> <p>Chapter 91: Miscellaneous Antibacterial Drugs: Fluoroquinolones, Metronidazole, Daptomycin, Rifampin, Rifaximin, and Fidaxomicin</p>	
<p>Week 14</p> <p>May 24th</p> <p>Chemotherapy of Infectious Disease</p> <p>Anti-virals, Anti-fungals, STI management</p>		<p>Chapter 92, 93, 94, 95, & 96</p> <p>Chapter 92: Antifungal Agents</p> <p>Chapter 93: Antiviral Agents I: Drugs for Non-HIV Viral Infections</p> <p>Chapter 94: Antiviral Agents II: Drugs for HIV Infection and Related Opportunistic Infections</p> <p>Chapter 95: Drug Therapy for Sexually Transmitted Infections</p> <p>Chapter 96: Antiseptics and Disinfectants</p>	<p>ATI Pharm Made Easy: Anti-viral, fungal, STIs (in Infection Module)</p> <p>Review Sexually Transmitted Diseases Patho</p> <p>Review Fungal and Viral Infections Patho</p> <p>ATI Comprehensive retake</p>
<p>Week 15</p> <p>May 31st</p>		<p>Chapter 57 & 58</p> <p>Chapter 57: Drugs for Diabetes Mellitus</p>	<p>ATI Pharm Made Easy: Endocrine</p> <p>Review Endocrine Diseases Patho</p> <p>ATI Comprehensive Exam 2</p>



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Endocrine		Chapter 58: Drugs for Thyroid Disorders	
Week 16 June 7 th	Final Exam: Cumulative Exam: 80% of content will be from weeks 13, 14, & 15		

Subject to change without prior notice