

NURS 2647 - Pathophysiology and Pharmacology for Nursing Practice

Fall 2026 Syllabus, Section 01, CRN 42841,

Credit hours: 3

Instructor

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Professional Qualifications:

Master of Science; Nursing Education, Mercy College of Ohio; 2023

Bachelor of Science; Nursing, Chamberlain University; 2018

Associate Degree; Nursing, Mercy College of Ohio; 2017

Bachelor of Arts; Speech Pathology and Audiology, The University of Akron; 2012

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Course Description

2647. Pathophysiology and Pharmacology for Nursing Practice. This course will examine the basic pathophysiological processes of various diseases of the body systems. Discussion will cover disease manifestations including symptoms, laboratory findings, treatment, and prognosis with emphasis on applying the nursing process. Students will also relate concepts of pharmacology applied to major drug classes, with an emphasis on nursing process application relating to drug therapy across the lifespan. Students will critically analyze several case study examples. Admission to the Associate Degree in Nursing Program required. Prereq.: BIOL 1551/L and BIOL 1552/L and NURS 2620, NURS 2620L. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Pharmacology and the nursing process	Lilley, L. L., Collins, S. R., & Snyder, J. S	9780443470080
Optional	Study guide for pharmacology and the nursing process	Lilley, L. L., Snyder, J. S., & Collins, S. R.	9780443121197
Required	Pharmacology Made Easy 5.0	ATI	None
Required	RN Pharmacology for Nursing Edition 10.0	ATI	None

All items from ATI are included in the original purchased ATI package & do not need to be repurchased.

Required:

Lilley, L. L., Collins, S. R., & Snyder, J. S. (2023). *Pharmacology and the nursing process* (10th ed.). Elsevier ISBN: 9780443470080

ATI RN Pharmacology for Nursing Edition 10.0

ATI Pharmacology Made Easy 5.0

Optional:

Lilley, L. L., Snyder, J. S., & Collins, S. R. (2023). *Study guide for pharmacology and the nursing process* (10th ed.). Mosby. ISBN: 9780443121197

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Welcome to Patho/Pharm Part 1: Pharmacologic Basics	The Nursing Process and Drug Therapy, Pharmacologic Principles, Lifespan Considerations, Cultural, Legal, and Ethical Considerations, and Over the Counter Drugs, Herbals, and Dietary Supplements	Check Blackboard/Sherpath for Assignments
8/31	Part 2: Drugs Affecting the Central Nervous System	Ch. 10 Analgesics, Local & General Anesthetics, Antiepileptics, Antiparkinsons	Check Blackboard/Sherpath for Assignments
9/7	No Class- Labor Day		Check Blackboard/Sherpath for Assignments
9/14	Exam 1 (Covering part 1 & 2) Part 5: Drugs Affecting the Endocrine & Reproductive System	Diabetes Mellitus, Diabetes Drugs, Thyroid Disorders	Check Blackboard/Sherpath for Assignments
9/21	Part 5: Drugs Affecting the Endocrine & Reproductive System	Diabetes Drugs (continued), Thyroid Disorders (continued), Cushing's/Addison's Disease, Adrenal Drugs, Pituitary Drugs, SIADH, DI	Check Blackboard/Sherpath for Assignments
9/28	Part 5: Drugs Affecting the Endocrine & Reproductive System	Cushing's/Addison's Disease, Adrenal Drugs, Pituitary Drugs, SIADH, DI (continued)	Check Blackboard/Sherpath for Assignments
10/5	Exam 2 (Covers Part 5: Endocrine) Part 8: Chemotherapeutic & Biologic Immune Modifiers	Immune System & Allergic Responses	Check Blackboard/Sherpath for Assignments
10/12	Part 8: Chemotherapeutic & Biologic Immune Modifiers	Cancer, Antineoplastics, Immunosuppressants, Inflammation, Inflammatory Disease	Check Blackboard/Sherpath for Assignments
10/19	Part 7: Antiinfective & Antiinflammatory Drugs	Infection/Antiinfectives, HIV/AIDS, Antivirals, Tuberculosis, Antitubercular	Check Blackboard/Sherpath for Assignments
10/26	Exam 3 (Covers part 7 & 8) Part 4: Drugs Affecting the Cardiovascular and Renal Systems	Acute Kidney Injury, Chronic Kidney Disease, Diuretics	Check Blackboard/Sherpath for Assignments
11/2	Part 4: Drugs Affecting the Cardiovascular and Renal Systems Part 3: Drugs Affecting the Autonomic Nervous System	Cardiovascular System, Hypertension, Hypotension, Angina, Myocardial Infarction, Coagulation	Check Blackboard/Sherpath for Assignments
11/9	Part 4: Drugs Affecting the Cardiovascular and Renal Systems	Heart Failure, Fluid & Electrolytes	Check Blackboard/Sherpath for Assignments
11/16	Exam 4 (Covers Parts 3 & 4) Part 6: Drugs Affecting the Respiratory System	COPD, Emphysema, ABGs	Check Blackboard/Sherpath for Assignments
11/23	Part 6: Drugs Affecting the Respiratory System	ABGs, Asthma, Bronchodilators, Common Cold/Allergies	Check Blackboard/Sherpath for Assignments
11/30	Part 9: Drugs Affecting the Gastrointestinal System	GERD, Acid-Control, Anti-emetic, Anti-nausea, Vitamins/Minerals, Nutrition, Anemia	Check Blackboard/Sherpath for Assignments
12/7	Exam 5 (Final Exam) (Covers part 6 & 9)		Check Blackboard/Sherpath for Assignments

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.