

NURS 6903 - Advanced Pharmacology

Fall 2026 Syllabus, Section A04, CRN 42718,

Credit hours: 3

Instructor

Cynthia Shields

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Public Instructor Information

Instructor Title: Cynthia Shields, DNP, APRN-CNP

Instructor Professional Qualifications:

DNP, Nursing, Case Western University. 2016

Post master's Certificate, Acute Care NP, Kent State University. 2012

Masters, Clinical Nurse Specialist, Idaho State University. 1993

Bachelor's, Nursing, Bowling Green State University. 1984

Instructor Office Location: 3303

Instructor Office Phone: 330-941-1345

Lecturer: Vincent Mikula, MSN, APRN-CNP

Professional Qualifications:

Master's, Nursing, Youngstown State University, 2019

Bachelor's, Nursing, Ohio University, 2013

Office: Cushwa 3315

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Course Description

6903. Advanced Pharmacology. Application of pharmacological concepts in clinical settings with examination of major categories of pharmacological agents. Prereq.: NURS 6902 with a grade of B or better. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Sentinel U		

Sentinel U: Students must purchase access through the **YSU Bookstore or Sentinel U website**. Access is required to complete assigned Sentinel U activities and course requirements

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
10/19	Sentinel U Sentinel U Sentinel U: Readiness Essentials Psychiatric: Pharmacodynamics, Management, Patient Education Sentinel U Readiness Essentials Cardiovascular: Pharmacodynamics, Management, Patient Education Sentinel U Readiness Essentials: Endocrine; Pharmacodynamics, Management, Patient Education. Sentinel U Readiness Essentials: Pulmonary: Pharmacodynamics, Management, Patient Education. Sentinel U Readiness Essentials: Musculoskeletal; Pharmacodynamics, Management, Patient Education. Sentinel U Readiness Essentials: Gastrointestinal: Pharmacodynamics, Management, Patient Education. Sentinel U	Intro to Pharmacology Prescriptive Authority & Drug Selection & Patient Outcomes. Pharmacokinetics, Pharmacodynamics & Interactions (Part 1-2). Drug Therapy Across the Lifespan Peripheral Nervous System Drugs Drugs affecting the Autonomic nervous system (Part 1-2-3-4) Drugs for Pain, Psychiatric & Substance Abuse Disorders Drugs for Pain (Local anesthetics, Opioid & Non-opioid, Headache) (Part 1-2-3) Psychotherapeutic Drugs (Antipsychotics, Antidepressants, Bipolar disorders, Sedative-Hypnotics, Anxiety, ADHD) (Part 1-2-3-4-5-6) Substance Abuse Disorders (Basic consideration, Alcohol, Nicotine & Smoking, Major Drugs) (Part 1-2-3-4) Cardiovascular Diuretics, Renin Angiotensin Meds, Calcium Channel Blockers, HTN Drugs, HF Drugs, Antidysrhythmic Drugs, Lipid lowering Drugs, Nitrates, Anticoagulants & Antiplatelets CDrugs for Diabetes & Thyroid Drugs for Asthma & COPD Drugs for allergic rhinitis, cough, and colds. Musculoskeletal & Antihistamines Anti-inflammatory, Anti-allergic, and immunologic drugs, Antihistamines. COX-1, NSAIDS, Acetaminophen. Glucocorticoids Drugs for Bone & Joint Disorders (Rheumatoid arthritis, Gout, Calcium & Bone Mineralization (Part 1-2-3) Gastrointestinal Drugs Drugs for Peptic ulcer disease Laxatives Antiemetics Antidiarrheal Agents Antibiotics Basic Principles of Antibiotic Therapy Penicillin's and Cephalosporins Tetracyclines and Macrolides Drugs for UTIs Drugs for TB Aminoglycosides &Sulfonamides &	Quiz 1, Due Sunday at Midnight Quiz 2, Due Sunday at Midnight Readiness Essentials Advanced: Pharmacology Psychiatric: Dimitrios Pappas - Anxiety Quiz 3, Due Sunday at Midnight Readiness Essentials Advanced: Pharmacology 1. Cardiovascular: Rafael Delgado- Palpitations 2. Cardiovascular; Tier Kanonhsase- High Blood Pressure 3. Cardiovascular: Joseph Carter Swollen Ankles Quiz 4, Due Sunday at Midnight Readiness Essentials Advanced: Pharmacology Endocrine: Luisa Sanchez- Fatigue, Rash Readiness Essentials Advanced: Pharmacology Pulmonary: Marcus Lee – Shortness of breath Quiz 5, Due Sunday at Midnight Readiness Essentials Advanced: Pharmacology Musculoskeletal: Kiran Gupta Readiness Essentials Advanced: Pharmacology Gastrointestinal: Leo Taylor - Cough Quiz 6, Due Sunday at Midnight Quiz 7, Due Saturday at Midnight

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.