

NURS 6902 - Advanced Pathophysiology

Fall 2026 Syllabus, Section A01, CRN 41937,

Credit hours: 3

Instructor

Cynthia Shields

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Public Instructor Information

Instructor Title: **Cynthia Shields, DNP, CNP-APRN**

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

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Course Description

6902. Advanced Pathophysiology. Normal physiologic functions and pathologic mechanisms are examined to prepare nurses for advanced practice roles. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	McCance, K.L. & Huether, S.E. (2023). Pathophysiology: The biological basis for disease in adults and children. (9th Ed.). Mosby		

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	Chapter 1: Cell biology Video Cellular Division/Cell Cycle Video Chapter 2: Cell Alterations PP Chapter 3: Fluid & Elect, Acid/Base PP Chapter 4: Genetics Video Autosomal Recessive /Dominance	Introduction to PAtophysiology	Quiz 1
8/31	Chapter 7/8: Innate/Immunity/ Inflammation/Adaptive Immunity Chapter 9: Cancer Alterations in Immunity & Inflammation PP Inflammatory response Video Chapter 10: Infection PP Chapter 11: Stress and Disease Chapter 12: Cancer PP Chapter 14 Cancer in Children/Adolescents	Immunity, Infection, Stress & Disease,	Quiz 2



9/7	Chapter 32: Blood Flow thru the Heart Video Cardiac Action Potential Video Cardiac Conduction Video Coronary blood Flow Video Layers of the Heart Video Lymphatic System Overview Video CO, BP, Circulation PP (part 1-2-3) Aging and the Cardiovascular System Chapter 33: Alt of CV PP (Part 1-2-3-4) Alterations of Cardiovascular Function in Children	Cardiac	Quiz 3 & Case Study Discussion
9/14	Chapter 35 Structure/Funct Pulm PP (part 1-2) Chapter 36: Alter of Pulmonary PP (1-6) Renal/Urology Chapter 38: Structure/Function Renal Video Chapter 39: Alterations of Renal PP Glomerulonephritis Video	Pulmonary & Renal	Quiz 4 & Case Study Discussion
9/21	Digestive Chapter 42: Alterations of Digestive PP (Part 1-5) Neurological: Chapter 15: Cranial nerve handout. The Nervous System PP (1-3) Chapter 17: Bell's Palsy video & worksheet Chapter 18: Headache handout with Podcast Neuro muscular Disease Handout & Lecture Disorders of Nervous Syst-Part 1-2	Digestive & Neuro	Quiz 5 & Case Study Discussion
9/28	Endocrine Chapter 21: Endocrine: Structure & Function Chapter 22 Thyroid Parathyroid Disorders PP Pituitary & Adrenal Disorders PP Pancreas/Diabetes PP Musculoskeletal Chapter 44: Musculoskeletal System PP Chapter 44: Musculoskeletal PP Chapter 45: Alterations of Musculoskeletal Function in Children	Endocrine & Musculoskeletal	Quiz 6 & Case Study on Discussion
10/5	Skin Chapter 47 Integumentary Structure/ Function PP Skin Cancer video Hematology Chapter 28: Components of Hematology Video Clotting Cascade Video Chapter 29 & 30 Hematology (RBC, WBC, Platelets) PP	Skin & Hematology	Quiz 7 & Case Study Discussion

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