

NURS 6902 - Advanced Pathophysiology

Summer 2026 Syllabus, Section A02, CRN 30341,

Credit hours: 3

Instructor

Cynthia Shields

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Cynthia Shields

Professional Qualifications:

DNP, Nursing, Case Western University

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

Masters, Clinical Nurse Specialist, Idaho State University

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Communication Expectations:

I will respond to emails within 24 hours.

How to Refer to me:

Dr. Shields



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
5/11	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



5/18	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
5/25	Chapter 32: Blood Flow thru the Heart Video 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
6/1	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
6/8	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
6/15	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
6/22	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

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.