NURSING PATHOPHYSIOLOGY (RNSG 1311)

CREDIT
3 Semester Credit Hours (3 hours lecture, 1 hours lab) 64 Contact Hours

MODE OF INSTRUCTION
Face to Face/Hybrid

PREREQUISITE/CO-REQUISITE:
Prerequisite: Admission to the AASN Program.
Co-Requisites: RNSG 1125, RNSG 1128, RNSG 1160, RNSG 1216, RNSG 1330

COURSE DESCRIPTION
Basic principles of pathophysiology emphasizing nursing applications. Includes epidemiologic factors that alter the normal physiological processes across the lifespan. This course lends itself to either a blocked or integrated approach.

COURSE OBJECTIVES/ COURSE MEASURABLE LEARNING OUTCOMES

Upon completion of this course, the student will be able to		**End of Program Student Learning Outcome (EOP SLO)**	**Differentiated Essential Competency (DEC)**
1.	*Discuss pathological changes in human tissue and systems.	2,3	PCC A1ab, B1,6,8, C6, E1ab, 5, F1,2
2.	*Relate the diagnosis, treatment modalities and potential outcomes of pathology.	4,5,6,7,8	PCC A1a,b,2b,8, B6, E1a,5, F2
3.	*Explain the significance of pathophysiology in professional nursing practice.	2,8	PCC A4, B4,6, E1ab, 5, F2
3.	Identify normal physiologic concepts and processes across the lifespan.	2,8	PCC 2b,D3a, E1a,b, F2
4.	Classify internal (genetic) and external (environmental) risk factors for pathophysiologic processes.	2,8	PCC A4, B4,6, E1ab, 5, F2
6.	Explain physiologic adaptation to pathophysiologic processes.	2,8	PCC A4, B4,6, E1ab, 5, F2
7.	Recognize manifestations of pathophysiologic and maladaptive processes.	2,8	PCC A4, B4,6, E1ab, 5, F2

Approved: NPA/1-13-25

8.	Discuss short-term and long-term consequences of maladaptive responses to pathophysiologic processes.	2,8	PCC A4, B4,6, E1ab. 5, F2

*Note: * indicates WECM End-of-Course Outcome.*

INSTRUCTOR CONTACT INFORMATION

Instructor:	Misty Jones, MSN ED., RN
Email:	msjones1@lit.edu
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Office Location:	WAHTC 340
Office Hours:	Tuesday 11:00 – 12:00 Wednesday 8:30 – 11:00 Friday 9:00 – 10:00

Instructor:	Stephen Reid DNP, APRN, FNP-C
Email:	sreid1@lit.edu
Office Phone:	(409)247- 5246 (Admin. Assoc.)
Office Location:	WAHTC 342
Office Hours:	By appointment

REQUIRED TEXTBOOK AND MATERIALS

Rogers, J. (2023). *McCance & Huether's Pathophysiology* (9th ed.). Elsevier Health Sciences (US).

Sherpath for Rogers, J. (2023). *McCance & Huether's Pathophysiology* (9th ed.). Elsevier Health Sciences (US).

ATTENDANCE POLICY

Students are expected to attend all classes. Therefore, absences should not be scheduled. If a student experiences an unplanned absence (illness or emergency), the student must contact the course faculty member by email or the administrative associate for the nursing program prior to the scheduled class and provide documentation of the absence. Failure to notify faculty and/or provide adequate documentation of the absence may result in an unexcused absence and initiation of the disciplinary process.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

OUTLINE

I. Pathophysiology Concepts
   A. Cellular and tissue physiology
   B. Fluids and Electrolytes
   C. Acid-base Balance
   D. Genetic link to pathophysiology
   E. Genetics, Environment, and Lifestyle Interactions

II. Immunity and Self-defense
   A. Innate
   B. Adaptive
   C. Maladaptive
   D. Pathophysiology/ Infection
   E. Genetics, Environment, and Lifestyle Interactions (stress)

III. Cancer Concepts
   A. Cellular Proliferation and Differentiation
   B. Metastasis
   C. Genetics, Environment, and Lifestyle Interactions
   D. Pathophysiology
   E. Adaptation to pathophysiologic processes
   F. Manifestations of pathophysiologic and maladaptive processes
   G. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

IV. Neurologic System Alterations & Adaptation
   A. Normal physiology across the lifespan (review)
   B. Genetics, Environment, and Lifestyle Interactions
   C. Pathophysiology
   D. Adaptation to pathophysiologic processes
   E. Manifestations of pathophysiologic and maladaptive processes
   F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

V. Endocrine System Alterations & Adaptation
   A. Normal physiology across the lifespan (review)
   B. Genetics, Environment, and Lifestyle Interactions
   C. Pathophysiology
   D. Adaptation to pathophysiologic processes
   E. Manifestations of pathophysiologic and maladaptive processes
   F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

VI. Reproductive System Alterations & Adaptation

A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

VII. Hematologic System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

VIII. Cardiovascular and Lymphatic System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

IX. Pulmonary System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

X. Renal and Urologic System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

XI. Digestive System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes

E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

XII. Musculoskeletal System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

XIII. Integumentary System Alterations & Adaptation
A. Normal physiology across the lifespan (review)
B. Genetics, Environment, and Lifestyle Interactions
C. Pathophysiology
D. Adaptation to pathophysiologic processes
E. Manifestations of pathophysiologic and maladaptive processes
F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

XIV. Multiple Interacting System Concepts
A. Inflammation
B. Adaptation to pathophysiologic processes
C. Manifestations of pathophysiologic and maladaptive processes
D. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes

COURSE CALENDAR

DATE	TOPIC	READINGS	EVALUATION & ASSIGNMENTS
Module 1a Tuesday 1/21/25	I. Pathophysiology Concepts A. Cellular and tissue physiology (review) B. Genetic link to pathophysiology C. Genetics, Environment, and Lifestyle Interactions D. Fluids and Electrolytes	McCance & Huether (2023) Chapter(s) 1,2,4-6 Chapter 3 **DUE**: before class	Sherpath Lesson(s): See Sherpath Assignment Schedule

	E. Acid-base Balance		
Module 1b Thursday 1/23/25	II. Neurologic System a. Normal physiology across the lifespan (review) b. Genetic and environmental risk factors for pathophysiologic processes c. Pathophysiology d. Adaptation to pathophysiologic processes E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 15-20 **DUE**: before class	Sherpath Lesson(s): See Sherpath Assignment Schedule
Module 2a Tuesday 1/28/25	III. Immunity and Self-defense A. Innate B. Adaptive C. Maladaptive D. Pathophysiology/ Infection E. Genetics, Environment, and Lifestyle Interactions (stress)	McCance & Huether (2023) Chapter(s) 7-11 **DUE**: before class	Sherpath Lesson(s): See Sherpath Assignment Schedule
Module 2b Tuesday 1/30/25	IV. Integumentary System A. A. Normal physiology across the lifespan (review)	McCance & Huether (2023) Chapter(s) 46-47 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule

	B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology D. Adaptation to pathophysiologic processes E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes		
Module 3a Tuesday 2/3/25	V. Renal and Urologic System A. Normal physiology across the lifespan (review) B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology D. Adaptation to pathophysiologic processes E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 37-39 **DUE**: before class	Sherpath Lesson(s): See Sherpath Assignment Schedule

Module 3b Thursday 2/6/25	XI. Digestive System A. Normal physiology across the lifespan (review) B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology D. Adaptation to pathophysiologic processes E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 40-42 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule
2/10/25	**Discussion**		See Blackboard

Module 4a Tuesday 2/11/25	VII. Cancer A. Cellular Proliferation and Differentiation B. Metastasis C. Genetics, Environment, and Lifestyle Interactions D. Pathophysiology E. Adaptation to pathophysiologic processes F. Manifestations of pathophysiologic and maladaptive processes G. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 12-14 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule
Module 4b Thursday 2/13/25	VIII. Hematologic System Alterations A. Normal physiology across the lifespan (review) B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology D. Adaptation to pathophysiologic processes E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of maladaptive	McCance & Huether (2023) Chapter(s) 28-30 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule

	responses to pathophysiologic processes		
2/17/25	**Discussion**		See Blackboard
Tuesday 2/18/25	**Exam I**		See Exam Blueprint
Module 5a Tuesday 2/18/25	IX. Cardiovascular and Lymphatic System Alterations A. normal physiology across the lifespan (review) B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology D. Adaptation to pathophysiologic process. E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 31-33 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule
Module 5b Thursday 2/20/25	X. Pulmonary System • Normal physiology across the lifespan (review) • Genetics, Environment, and Lifestyle Interactions • Pathophysiology • Adaptation to pathophysiologic processes • Manifestations of pathophysiologic and maladaptive processes	McCance & Huether (2023) Chapter(s) 34-36 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule

	• Short-term and long-term consequences of maladaptive responses to pathophysiologic processes		
Module 6a Thursday 2/25/25	XI. Reproductive System A. Normal physiology across the lifespan (review) B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology Adaptation to pathophysiologic processes D.Manifestations of pathophysiologic and maladaptive processes E.Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 24-27 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule
Module 6b Tuesday 2/27/25	XII. Musculoskeletal System A. Normal physiology across the lifespan (review) B. Genetics, Environment, and Lifestyle Interactions C. Pathophysiology D. Adaptation to pathophysiologic processes E. Manifestations of pathophysiologic and maladaptive processes F. Short-term and long-term consequences of	McCance & Huether (2023) Chapter(s) 43-45 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule

	maladaptive responses to pathophysiologic processes		
3/3/25	**Discussion**		See Blackboard
Module 7a Tuesday 03/04/25	XIII. Endocrine System Alterations • Normal physiology across the lifespan (review) • Genetics, Environment, and Lifestyle Interactions • Pathophysiology • Adaptation to pathophysiologic processes • Manifestations of pathophysiologic and maladaptive processes • Short-term and long-term consequences of maladaptive responses to pathophysiologic processes	McCance & Huether (2023) Chapter(s) 21-23 **DUE**: before class	Sherpath Lesson(s): See Sherpath Assignment Schedule
Module 7b Thursday 03/06/25	**Exam 2** (lecture to follow) XIV. Multiple Interacting Systems A. Inflammation B. Adaptation to pathophysiologic processes C. Manifestations of pathophysiologic	McCance & Huether (2023) Chapter(s) 48-49 **DUE**: before class	Sherpath Lessons: See Sherpath Assignment Schedule

	and maladaptive processes D. Short-term and long-term consequences of maladaptive responses to pathophysiologic processes		
Tuesday 03/18/25	**Comprehensive Final Exam**		See Exam Blueprint

Assignment Schedule

Sherpath lessons are assigned to reinforce student learning. The "graded" assignments are due prior to class. The "recommended" lessons are not graded but are highly recommended to help you grasp the content we are covering. Grades on the "graded" Sherpath assignments will be calculated into the course average after a 75% average on all exams is achieved.

Week 1 - Tuesday

MODULE	READINGS (Due on this Date)	GRADED ASSIGNMENTS
Module 1A	McCance & Huether (2023) Chapter(s) 1, 2, 4-6, 3 **DUE**: 1-20-25 @ 1159 pm	**Chapter 1: Cellular Biology** • Understanding Cellular Transport, Reproduction, and the Concept of Tissues – *53 minutes* **Chapter 2: Altered Cellular and Tissue Biology: Environmental Agents** • Understanding Cellular Adaptation & Injury – *60 minutes* **Chapter 4: Genes and Genetic Diseases** • Genetic Inheritance & Gene Linkage – *50 minutes* **Chapter 6: Epigenetics and Disease** • Epigenetics – *26 minutes* **Chapter 3: The Cellular Environment: Fluids and Electrolytes, Acids and Bases** • Understanding Alterations in Electrolytes – *62 minutes* • Acid-Base Balance and Imbalance – *41 minutes*

MODULE	READINGS (Due on this Date)	RECOMMENDED ASSIGNMENTS
Module 1A	McCance & Huether (2023) Chapter(s) 1,2,4-6. 3	**Chapter 2: Altered Cellular and Tissue Biology: Environmental Agents** • Understanding Environmental and Climatic Impact • Understanding the Manifestations and Age-Related Cellular Alterations **Chapter 4: Genes and Genetic Diseases** • Key Elements of Genetics **Chapter 5: Genes, Environment-Lifestyle, and Common Diseases** • Understanding Genetics of Common Diseases • Understanding the Effects of Genes & Environment **Chapter 6: Epigenetics and Disease** • Epigenetic States & Diseases **Chapter 3: The Cellular Environment: Fluids and Electrolytes, Acids and Bases** • Understanding Distribution of Body Fluids

Week 1 - Thursday

MODULE	READINGS (Due on this Date)	GRADED ASSIGNMENTS
Module 1B	McCance & Huether (2023) Chapter(s) 15 - 20 **DUE**: 1-22-25 @ 1159 pm	**Chapter 15: Structure and Function of the Neurologic System** • Understanding the Nervous System – *28 minutes* **Chapter 16: Pain, Temperature Regulation, Sleep, & Sensory Function** • Modulation and Clinical Descriptions of Pain - *30 minutes* **Chapter 17: Alterations in Cognitive Systems, Cerebral Hemodynamics, and Motor Function** • Alterations in Cognitive Systems – *52 minutes* **Chapter 18: Alterations of the Brain, Spinal Cord, and Peripheral Nerves** • Brain and Spinal Cord Injury – *54 minutes* **Chapter 20: Alterations of Neurologic Function in Children** • Development of the Nervous System and Structural Malformations– 28 *minutes*

MODULE	READINGS (Due on this Date)	RECOMMENDED ASSIGNMENTS
Module 1B	McCance & Huether (2023) Chapter(s) 15 - 20	**Chapter 15: Structure and Function of the Neurologic System** • Understanding the Central Nervous System • Understanding the Peripheral and Autonomic Nervous System **Chapter 16: Pain, Temperature Regulation, Sleep, & Sensory Function** • Disorders of Temperature Control and Sleep • Sensory Disorders **Chapter 17: Alterations in Cognitive Systems, Cerebral Hemodynamics, and Motor Function** • Alterations in Cerebral Hemodynamics, Neuromotor Function and in Muscle tone and Movement • Chronic Diseases and Disorder Involving Motor Function **Chapter 18: Alterations of the Brain, Spinal Cord, and Peripheral Nerves** • Seizures, Primary Headache Syndromes and Cerebrovascular Disorders • Disorders of the Central and Peripheral Nervous System **Chapter 19: Neurobiology of Schizophrenia, Mood Disorders, Anxiety Disorders, Posttraumatic Stress Disorder, and Obsessive-Compulsive Disorder** • Schizophrenia and Mood Disorders • Anxiety Disorders, Post-Traumatic Stress Disorder and Obsessive-Compulsive Disorder **Chapter 20: Alterations of Neurologic Function in Children** • Encephalopathies, Cerebrovascular Diseases, Epilepsy and Childhood Tumors

Week 2 - Tuesday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 2A	McCance & Huether (2023) Chapter(s) 7-11 **DUE**:	**Chapter 7: Innate Immunity: Inflammation and Wound Healing** • Immunity and cellular response to inflammation – *68 minutes* **Chapter 8: Adaptive Immunity**

	1-27-25 @ 1159 PM	• Understanding Adaptive Immunity – *26 minutes* **Chapter 9: Alterations in Immunity** • Understanding Hypersensitivity Reactions and Disorders – *58 minutes* **Chapter 10: Infection** • Microorganisms and the Infection Process – *26 minutes* • Understanding Infections – *44 minutes* **Chapter 11: Stress and Disease** • Understanding Stress Systems and its Response – *46 minutes*
MODULE	READINGS	RECOMMENDED ASSIGNMENTS
MODULE 2A	McCance & Huether (2023) Chapter(s) 7-11	**Chapter 7: Innate Immunity: Inflammation and Wound Healing** • Wound healing **Chapter 8: Adaptive Immunity** • Understanding Immune Response **Chapter 9: Alterations in Immunity** • Deficiencies in Immunity **Chapter 10: Infection** • Understanding Human Immunodeficiency Virus (HIV) and Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) **Chapter 11: Stress and Disease** • Chronic Stress Across the Life Span and Coping Strategies

Week 2 - Thursday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 2B	McCance & Huether (2023) Chapter(s) 46-47 **DUE**: 1-29-25 @ 1159 PM	**Chapter 46: Structure, Function, and Disorders of the Integument** • Structure and Function of the Skin – *44 minutes* **Chapter 47: Alterations of the Integument in Children** • Common Inflammatory Disorders and Skin Infections – *46 minutes* • Vascular Anomalies and their Skin Disorders – *28 minutes*
MODULE	READINGS	RECOMMENDED ASSIGNMENTS

MODULE 2B	McCance & Huether (2023) Chapter(s) 46-47	**Chapter 46: Structure, Function, and Disorders of the Integument** • Disorders of the Skin, Part 1 • Disorders of the Skin, Part 2

Week 3 - Tuesday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 3A	McCance & Huether (2023) Chapter(s) 37 - 39 **DUE**: 2-3-25 @ 1159 PM	**Chapter 37: Structure and Function of the Renal and Urologic Systems** • Functions and Tests of the Kidneys – *48 minutes* **Chapter 38: Alterations of Renal and Urinary Tract Function** • Urinary Tract Obstruction and Tumors – *44 minutes* • Urinary Tract Infections and Glomerular Disorders – *42 minutes* • Acute Kidney Injury and Chronic Kidney Disease – *47 minutes* **Chapter 39: Alterations of Renal and Urinary Tract Function in Children** • Alterations in Renal and Bladder Function in Children – *30 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 3A	McCance & Huether (2023) Chapter(s) 37 - 39	**Chapter 37: Structure and Function of the Renal and Urologic Systems** • Structures of the Renal System **Chapter 39: Alterations of Renal and Urinary Tract Function in Children** • Disorders of the Kidney and Bladder in Children

Week 3 – Thursday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 3B	McCance & Huether (2023)	**Chapter 40: Structure and function of the Digestive System**

	Chapter(s) 40 - 42 **DUE**: 2-5-25 @ 1159 PM	• The Gastrointestinal Tract – *72 minutes* • Accessory Organs of Digestion – *54 minutes* **Chapter 41: Alterations of Digestive Function** • Disorders of the Gastrointestinal Tract and Motility – *69 minutes* • Disorders of the Intestines – *44 minutes* • Disorders of the Accessory Organs of Digestion – *66 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 3B	McCance & Huether (2023) Chapter(s) 40 - 42	**Chapter 41: Alterations of Digestive Function** • Cancer of the Digestive System **Chapter 42: Alterations of Digestive Function in Children** • Disorders of the Gastrointestinal Tract in Children - • Disorders of the Liver in Children

Week 4 - Tuesday

MODULE	**READINGS**	**GRADED ASSIGNMENTS**
MODULE 4A	McCance & Huether (2023) Chapter(s) 12 - 14 **DUE**: 2-10-25 @1159 pm	**Chapter 12: Cancer Biology** • Understanding Tumor Classification, Hallmarks of Cancer Cells and Cellular Adaptations – *56 minutes* • Understanding Metastasis – *42 minutes* • Clinical Manifestations and Treatment of Cancer **Chapter 13: Cancer Epidemiology** • Understanding the Epidemiology of Cancer – *28 minutes* • Lifestyle Factors • Environmental Factors and Occupational Factors **Chapter 14: Cancer in Children and Adolescents** • Incidence of Childhood Cancer and Prognosis • Etiology of Childhood Cancer – *34 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**

MODULE 4A	McCance & Huether (2023) Chapter(s) 12 - 14	**Chapter 12: Cancer Biology** • Clinical Manifestations and Treatment of Cancer **Chapter 13: Cancer Epidemiology** • Lifestyle Factors • Environmental Factors and Occupational Factors **Chapter 14: Cancer in Children and Adolescents** • Incidence of Childhood Cancer and Prognosis

Week 4 – Thursday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 4B	McCance & Huether (2023) Chapter(s) 28 - 30 **DUE**: 2-12-25 @1159 PM	**Chapter 28: Structure and Function of the Hematologic System** • Components of the Hematologic System – *34 minutes* • Development of Blood Cells – *56 minutes* **Chapter 29: Alterations of Hematologic Function** • Anemia and Myeloproliferative Red Cell Disorders – *60 minutes* • Alterations of Leukocyte Function – *30 minutes* • Alterations of Lymphoid and Splenic Function – *44 minutes* • Alterations of Platelets and Coagulation Disorders – *54 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 4B	McCance & Huether (2023) Chapter(s) 28 - 30	**Chapter 28: Structure and Function of the Hematologic System** • Clinical Evaluation and Age-Related Changes **Chapter 30: Alterations of Hematologic Function in Children** • Fetal, Neonatal and Postnatal Hematopoiesis • Disorders of Erythrocytes • Disorders of Coagulation and Platelets Neoplastic Disorders

Week 5 - Tuesday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 5A	McCance & Huether (2023) Chapter(s) 31 - 33 **DUE**: 2-17-25 @ 1159 PM	**Chapter 31: Structure and Function of the Cardiovascular and Lymphatic Systems** • Heart – *64 minutes* • Systemic Circulation and the Lymphatic System – *46 minutes* **Chapter 32: Alterations of Cardiovascular Function** • Diseases of the Veins and the Arteries – *84 minutes* • Disorders of the Heart Wall and Heart Diseases – *62 minutes* **Chapter 33: Alterations of Cardiovascular Function in Children** • Congenital Heart Defects – *58 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 5A	McCance & Huether (2023) Chapter(s) 31 - 33	**Chapter 31: Structure and Function of the Cardiovascular and Lymphatic Systems** • Tests of Cardiovascular Function and the Effects of Aging **Chapter 33: Alterations of Cardiovascular Function in Children** • Acquired Cardiovascular Disorders

Week 5 – Thursday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 5B	McCance & Huether (2023) Chapter(s) 34 - 36 **DUE**: 2-19-25 @ 1159 PM	**Chapter 34: Structure and Function of the Pulmonary System** • Structures of the Pulmonary System – *26 minutes* • Function and Tests of the Pulmonary System – *66 minutes* **Chapter 35: Alterations of Pulmonary Function** • Pulmonary Alterations and Disorders of the Chest Wall and Pleura – *50 minutes* • Pulmonary Diseases, Part 1 • Pulmonary Diseases, Part 2 **Chapter 36: Alterations of Pulmonary Function in Children** • Disorders of the Upper Airways – *34 minutes*

		• Disorders of the Lower Airways – *58 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 5B	McCance & Huether (2023) Chapter(s) 34 - 36	**Chapter 35: Alterations of Pulmonary Function** • Pulmonary Diseases, Part 1 • Pulmonary Diseases, Part 2

Week 6 - Tuesday

MODULE	**READINGS**	**GRADED ASSIGNMENTS**
MODULE 6A	McCance & Huether (2023) Chapter(s) 24 - 27 **DUE**: 2-24-25 @ 1159 PM	**Chapter 24: Structure and Function of the Reproductive Systems** • Development of the Reproductive Systems – *28 minutes* • The Female Reproductive System – *32 minutes* • The Male Reproductive System – *26 minutes* **Chapter 25: Alterations of the Female Reproductive System** • Abnormalities, Hormonal Alterations, and Inflammatory Disorders in Females – *52 minutes* • Benign Growths, Sexual Dysfunction and Reproductive Cancers in Female – *52 minutes* • Disorders of the Female Breast – *34 minutes* **Chapter 26: Alterations of the Male Reproductive System** • Alterations of Sexual Maturation and Disorders of the Urethra and Penis – *48 minutes* • Disorders of the Scrotum, Testis, and Epididymis – *34 minutes* • Disorders of the prostate Gland and the Male Breast and Sexual Dysfunction – *56 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 6A	McCance & Huether (2023)	**Chapter 24: Structure and Function of the Reproductive Systems** • Aging and Reproductive Function

	Chapter(s) 24 - 27	**Chapter 27: Sexually Transmitted Infections** • Sexually Transmitted Bacterial Infections • Sexually Transmitted Viral and Parasitic Infections

Week 6 – Thursday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 6B	McCance & Huether (2023) Chapter(s) 43 - 45 **DUE**: 2-26-25 @ 1159 PM	**Chapter 43: Structure and Function of the Musculoskeletal System** • Structure and Function of Bones and Joints – *60 minutes* • Structure and Function of Skeletal Muscles – *60 minutes* **Chapter 44: Alterations of Musculoskeletal Function** • Disorders of Bones – *42 minutes* • Disorders of Joints – *38 minutes* • Disorders of Skeletal Muscle – *42 minutes* **Chapter 45: Alterations of Musculoskeletal Function in Children** • Musculoskeletal Development and Alterations in Children – *64 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 6B	McCance & Huether (2023) Chapter(s) 43 - 45	**Chapter 44: Alterations of Musculoskeletal Function** • Musculoskeletal Injuries **Chapter 45: Alterations of Musculoskeletal Function in Children** • Avascular Disease and Musculoskeletal Tumors in Children

Week 7 - Tuesday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 7A	McCance & Huether (2023) Chapter(s) 21 - 23 **DUE**:	**Chapter 21** • Release and Regulation of Hormone – *30 minutes* • Structure and Function of the Endocrine Glands – *64 minutes* **Chapter 22**

	3-3-25 @ 1159 pm	• Disorders Due to Alterations of the Hypothalamic-Pituitary System – *30 minutes* • Disorders Due to Alterations of Thyroid, Parathyroid, and Adrenal Function – *50 minutes* • Disorders Due to Dysfunction of the Endocrine Pancreas – *38 minutes*
MODULE	**READINGS**	**RECOMMENDED ASSIGNMENTS**
MODULE 7A	McCance & Huether (2023) Chapter(s) 21 - 23	**Chapter 23** • Understanding Adipose Tissue and Obesity • Understanding Starvation and Eating Disorders

Week 7 – Thursday

MODULE	READINGS	GRADED ASSIGNMENTS
MODULE 7A	McCance & Huether (2023) Chapter(s) 48 - 49 **DUE**: 3-5-25 @ 1159 pm	**Chapter 48: Shock, Multiple Organ Dysfunction Syndrome, and Burns in Adults** • Shock and Multiple Dysfunction Syndrome – *54 minutes* • Thermal Injury and Burns – *40 minutes* **Chapter 49: Shock, Multiple Organ Dysfunction Syndrome, and Burns in Children** • Shock and Reperfusion Injury in Children – *66 minutes* • Burn Injury in Children – *54 minutes*

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Evaluation Method	Course Grade %
1. *Sherpath Lessons	7.5%
2. *Audience Response Questions (in class)	7.5%
3. * Blackboard Ultra Assignments	15%
4. Exam I	20%
5. Exam II	20%
6. Final Exam	30%

Total:	100%

Note: *Students must have a 75% average on exams in order for the Sherpath lessons and Audience Response Questions to be counted in the final course grade. If 75% on all exams is not achieved by the end of the course, the student will earn the grade from all averaged exams.*

GRADE SCALE

90-100	A	
80-89	B	
75-79	C	*Required to progress in nursing program.
60-69	D	
0-59	F	

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

AI STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires

to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI / ChatGPT in their courses.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

COURSE GRADING AND ASSIGNMENTS

Class attendance and satisfactory completion of all assignments is essential in order to be successful in the course.

SHERPATH LESSONS

Sherpath lessons accompany the pathophysiology textbook and are accessed through the Evolve website using the student login and are linked to the Blackboard® course. Sherpath lessons are assigned in order to reinforce student learning. Grades on Sherpath lessons will be calculated into the course average after a 75% average on all exams is achieved.

AUDIENCE RESPONSE QUESTIONS

Faculty will utilize an audience response system to ask questions during class. This strategy is utilized to assess class understanding of the content and to promote critical thinking. It is essential for students to come to class prepared and actively engage in the discussion in order to earn a grade for Audience Response Questions. Grades on Audience Response Questions will be calculated into the course average after a 75% average on all exams is achieved.

COURSE EXAMS

Four unit exams and a comprehensive final exam will be administered during this course. Exams will be taken in person and during class time. Upon entry to testing room, students must show the official LIT Student ID. The ID must remain visible on the student's desk at all times during exam administration. The following items are not allowed in the testing room:

- Hats, caps, scarfs, hooded shirts (unless religious covering)
- Food, candy, drinks
- Cell phone, electronic devices, smart watches, smart glasses, recording devices

LATE ASSIGNMENTS

Late assignments are generally not accepted in this course. Due dates for the Sherpath Lessons and Blackboard Assignments are clearly marked on the syllabus and known at the beginning of the course. Students with extenuating circumstances such as severe illness or victims of a natural disaster must notify the faculty member of the circumstance and work collaboratively with faculty prior to the due date on the assignment to develop a plan for submitting the assignment. This collaboration should occur prior to the weekend or school holiday. Assignments will not be accepted late without prior arrangements. Students must be present to earn Audience Response Question grades, and all exams are taken in person. Students who are sick on exam day must notify faculty by email prior to the exam start time. Valid documentation must be provided to the faculty member in order for arrangements to be made for retaking the exam or an alternate solution as determined by the Nursing Program Director.

PERMISSION TO RECORD LECTURES

Students are not allowed to record (audio or video) lectures or class discussions without the expressed permission of the faculty member. This includes pictures of presentations.

CIVILITY

Learning can be an intimidating experience for some students. It is imperative that students in the AASN program are respectful and civil to student colleagues as well as faculty in order to facilitate a safe and effective learning environment. It is imperative for students to realize that all students do not process information in the same manner or learn information in the same way. The AASN program faculty respect the diversity of our students which includes diversity of learning styles. Civility is maintained when there is order, respect for the teaching and learning process, empathy, and consideration for others. Students are expected to demonstrate civility in the classroom, online environment, and in all face-to-face as well as electronic communications. Demonstrations of uncivil behavior are unacceptable, do not demonstrate attributes of a professional nurse, and may result in initiation of the disciplinary process

including but not limited to the student being excused from the experience, course, and potentially the nursing program.