



Pathophysiology

MASC395

Southwestern College Professional Studies

COURSE SYLLABUS

I. Course Catalog Description

This is a foundational course in the study of physiologic and pathologic concepts of human homeostasis and alterations in homeostasis. It focuses on rationales for adaptations of human functioning to stressors and altered health states. This course provides a basis for understanding alterations in human functioning imposed by disease processes so that application to understanding clinical presentations can be made. Anatomy and Physiology and other supplementary science courses may provide a foundational knowledge base for this course. 3 credit hours

II. Required and Supplementary Instructional Materials

Porth, C.M. (2015). Essentials of pathophysiology: concepts of altered health states. (4th ed). Philadelphia: Wolters Kluwer (online text in Blackboard course)

III. Learning Outcomes

Learning outcomes describe the knowledge, skills, values, and attitudes that learners gain as the result of a particular learning experience. Southwestern College Professional Studies has learning outcomes specific to each program of study that are in line with the institutional outcomes of critical thinking, ethical reasoning, leadership, communication, and career preparation. Course outcomes support program outcomes and are listed below.

Upon successfully completing this course, the learner will be able to:

1. Demonstrate an understanding of pathophysiology and the essential features of cellular function.
2. Analyze pathophysiological processes involved in the development of cardiovascular disorders.
3. Explain the physiological basis for signs and symptoms of respiratory disorders.
4. Differentiate the pathophysiological process of various disorders affecting the renal system.
5. Analyze the differences between various disease processes affecting the gastrointestinal system.
6. Evaluate the effect of various endocrine disorders on the human body.
7. Examine the pathophysiological processes of cancer and other disorders affecting the immune system.
8. Analyze the pathophysiological process of various disorders affecting the male and female reproductive systems.
9. Differentiate between various disorders affecting the neurological system.
10. Examine the relationship between disease processes affecting the musculoskeletal system.
11. Develop critical thinking skills by submitted written, visual and oral presentations.

At the end of the course, learners may vary in their ability to achieve these outcomes. You are more likely to achieve these outcomes only if you attend class and/or online activities as required by the syllabus, complete the requirements for all assignments to the best of your ability, participate actively in class activities and group work as directed, and study diligently for exams.

IV. Course Policies

Students are expected to read and abide by the course policies located in the instructor-specific syllabus in the blackboard course.

V. Course Requirements:

Requirements	Number of Assignments	Points Possible	Percent of Grade
Case Studies	2	100	10%
Discussion Forums	12	420	42%
Introduction Discussion Forum	1	20	2%
Endocrine Concept Map	1	100	10%
Neurological Presentation	1	100	10%
Patient Education Handout Assignment	1	100	10%
Final Comprehensive Paper	1	100	10%
Presentation Over Final Comprehensive Paper	1	60	6%
Total Points			

VI. Course at a Glance:

Unit	Reading & Preparation Activities	Graded Work Due
1	Module 1.1 Why Pathophysiology Module 1.2 Tissues Module 1.3 Cellular Injury Causes Module 1.4 Cellular Changes Module 1.5 Inflammatory Responses Module 1.6 Function of DNA Module 1.7 Genetic Disorders	Introduction Discussion Unit 1.1 Discussion Unit 1.2 Discussion Unit 1 Case Study
2	Module 2.1 Atheromas Module 2.2 Heart Failure Module 2.3 Pericarditis and Infectious Endocarditis Module 2.4 Hypertension Module 2.5 Aortic Aneurysms and Dissection Module 2.6 Peripheral Vascular Disease and Leg Ulcers Module 2.7 Congenital Heart Conditions Module 2.8 Complications of Myocardial Infarction	Unit 2.1 Discussion Unit 2.2 Discussion Unit 2 Case Study
3	Module 3.1 Respiratory Distress Syndrome Module 3.2 Obstructive Airway Disorders Module 3.3 Symptom of Cystic Fibrosis Module 3.4 Arterial Blood Gases Module 3.5 Pulmonary Tuberculosis Module 3.6 Pneumonia Module 3.7 Pneumothorax Module 9.3 Stroke Module 9.4 Seizures Module 9.5 Headaches	Unit 3.1 Discussion Unit 3.2 Discussion Neurological Presentation
4	Module 4.1 Urinary Tract Obstruction Module 4.2 Polycystic Kidney Disease Module 4.3 Acute Kidney Injury Module 4.4 Chronic Kidney Disease Module 4.5 Urinary Incontinence Module 6.1 Endocrine Disorders Module 6.2 Adrenal Cortex Disorders Module 6.3 Hypo and Hyperpituitarism Module 6.4 Diabetes	Unit 4.1 Discussion Unit 4.2 Discussion Endocrine Disorder Concept Map

Unit	Reading & Preparation Activities	Graded Work Due
5	Module 7.1: Cancer Grading and Staging Module 7.2: Cell Proliferation & Differentiation Module 7.3: Benign Versus Malignant Tumors Module 7.4: Cancer Genes Module 7.5: Primary Immunodeficiency & Autoimmune Lupus Module 7.6: Hypersensitivity Immune Responses Module 7.7: Innate Immune System Module 7.8: Active and Passive Immunity Module 8.1 Breast Cancer Risk Factors Module 8.2 Ovarian Cancer Module 8.3 Prostate Cancer Module 8.4 Testicular Cancer	Unit 5.1 Discussion Unit 5.2 Discussion Patient Education Handout Assignment
6	Module 5.1 Gastroesophageal Reflux Disease Module 5.2 Acute and Chronic Gastritis Module 5.3 Crohn Disease and Ulcerative Colitis Module 5.4 Colon Cancer Module 5.5 Intestinal Obstruction Module 5.6 Viral hepatitis Module 5.7 Cirrhosis	Unit 6.1 Discussion Unit 6.2 Discussion (Presentation) Final Comprehensive Written Paper Presentation on Comprehensive Written Paper

VII. Other Policies and Requirements

Follow this link to the Southwestern College Professional Studies [Standard Syllabus](#) in Blackboard. You may be required to log in.