



**El Camino College**  
**COURSE OUTLINE OF RECORD – Official**

<b>Course Acronym:</b>	NURS
<b>Course Number:</b>	210
<b>Descriptive Title:</b>	Implications of Pathophysiology Concepts for Nurses
<b>Division:</b>	Health Sciences and Athletics
<b>Department:</b>	Nursing
<b>Course Disciplines:</b>	Nursing
<b>Catalog Description:</b>	In this course, the student will deepen their understanding of pathophysiology and the progressive effects of disease on the human body. Common single and multi-system disorders will be used to illustrate clinical relationships between the knowledge of pathophysiology, patient assessment, diagnostics, and management of care.
<b>Prerequisite:</b>	Nursing 240 with a minimum grade of C or licensed Registered Nurse or Vocational Nurse
<b>Co-requisite:</b>	
<b>Recommended Preparation:</b>	
<b>Enrollment Limitation:</b>	
<b>Hours Lecture (per week):</b>	2
<b>Hours Laboratory (per week):</b>	0
<b>Outside Study Hours:</b>	4
<b>Total Course Hours:</b>	36
<b>Course Units:</b>	2
<b>Grading Method:</b>	Letter Grade only
<b>Credit Status:</b>	Credit, degree applicable
<b>Transfer CSU:</b>	Yes
<b>Effective Date:</b>	10/20/1997
<b>Transfer UC:</b>	Yes
<b>Effective Date:</b>	
<b>General Education:</b>	ECC
<b>Term:</b>	
<b>Other:</b>	
<b>CSU GE:</b>	
<b>Term:</b>	
<b>Other:</b>	
<b>IGETC:</b>	
<b>Term:</b>	
<b>Other:</b>	

<p><b>Student Learning Outcomes:</b></p>	<p><b>SLO #1 Common Disorders</b></p> <p>The student will define and explain common disorders and diseases related to the body systems.</p> <p><b>SLO #2 Pathophysiologic Concepts for Management</b></p> <p>The student will apply pathophysiologic concepts for the interdisciplinary management of patient care utilizing evidenced-based clinical practices.</p> <p><b>SLO #3 Pathophysiologic Concepts for Health Ed.</b></p> <p>The student will utilize pathophysiologic concepts to promote health education.</p>
<p><b>Course Objectives:</b></p>	<ol style="list-style-type: none"> <li>1. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the cardiovascular system.</li> <li>2. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the pulmonary system.</li> <li>3. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the endocrine system.</li> <li>4. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the renal system.</li> <li>5. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the hepatobiliary system.</li> <li>6. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the gastrointestinal system.</li> </ol>
<p><b>Major Topics:</b></p>	<p><b>I. Selected Cardiovascular Pathologies (6 hours, lecture)</b></p> <ol style="list-style-type: none"> <li>A. Pathogenesis</li> <li>B. Clinical manifestations</li> <li>C. Diagnostics</li> <li>D. Nursing management</li> </ol> <p><b>II. Selected Pulmonary Pathologies (6 hours, lecture)</b></p> <ol style="list-style-type: none"> <li>A. Pathogenesis</li> <li>B. Clinical manifestations</li> <li>C. Diagnostics</li> <li>D. Nursing management</li> </ol> <p><b>III. Selected Endocrine Pathologies (6 hours, lecture)</b></p> <ol style="list-style-type: none"> <li>A. Pathogenesis</li> <li>B. Clinical manifestations</li> <li>C. Diagnostics</li> <li>D. Nursing management</li> </ol> <p><b>IV. Selected Renal Pathologies (6 hours, lecture)</b></p> <ol style="list-style-type: none"> <li>A. Pathogenesis</li> <li>B. Clinical manifestations</li> <li>C. Diagnostics</li> <li>D. Nursing management</li> </ol> <p><b>V. Selected Hepatobiliary Pathologies (6 hours, lecture)</b></p> <ol style="list-style-type: none"> <li>A. Pathogenesis</li> <li>B. Clinical Manifestations</li> <li>C. Diagnostics</li> <li>D. Nursing management</li> </ol> <p><b>VI. Selected Gastrointestinal Pathologies (6 hours, lecture)</b></p> <ol style="list-style-type: none"> <li>A. Pathogenesis</li> <li>B. Clinical manifestations</li> <li>C. Diagnostics</li> </ol>

	D. Nursing management
<b>Total Lecture Hours:</b>	36
<b>Total Laboratory Hours:</b>	0
<b>Total Hours:</b>	36
<b>Primary Method of Evaluation:</b>	1) Substantial writing assignments
<b>Typical Assignment Using Primary Method of Evaluation:</b>	Based on assigned readings and selected case studies, prepare a written nursing care plan that reflects pathophysiologic changes affecting a patient's seven basic needs.
<b>Critical Thinking Assignment 1:</b>	Create a Nursing Care Plan that assesses how underlying pathophysiological concepts determine patient symptoms and nursing care.
<b>Critical Thinking Assignment 2:</b>	Students will analyze and correlate signs and symptoms, lab values, diagnostic test results, pharmacologic therapies, and nursing interventions to three different pathologies and formally present their findings to the instructor and classmates.
<b>Other Evaluation Methods:</b>	Completion, Matching Items, Multiple Choice, Other Exams, Presentation, Quizzes, Reading Reports, Written Homework
<b>Instructional Methods:</b>	Discussion, Group Activities, Lecture, Multimedia presentations
<b>If other:</b>	Internet Presentation/Resources Case studies
<b>Work Outside of Class:</b>	Answer questions, Problem solving activity, Required reading, Study, Written work (such as essay/composition/report/analysis/research)
<b>If Other:</b>	
<b>Up-To-Date Representative Texts:</b>	Norris, T. L. & Tuan, R. L. Porth's Essentials of Pathophysiology. 5th ed. Wolters Kluwer, 2020. Qualifier Text: "Designed to present students with essential concepts of disease processes and altered health states, this fifth edition text is ideal for both discrete and integrated pathophysiology courses." -Qualifier description provided by publisher.
<b>Alternative Texts:</b>	
<b>Required Supplementary Readings:</b>	
<b>Other Required Materials:</b>	Nursing 210 Course Syllabus
<b>Requisite:</b>	Prerequisite
<b>Category:</b>	sequential
<b>Requisite course(s): List both prerequisites and corequisites in this box.</b>	Nursing- 240
<b>Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).</b>	<b>Understand the nature and mechanisms of fluid and electrolyte balance versus imbalance.</b> NURS 240 - Analyze the nursing process in caring for adult patients with moderate to severe imbalances in acid-base balances, fluid and electrolyte, metabolic, and glucose regulation. NURS 240 - Examine the mechanism for fluid and electrolyte balance and imbalance when considering intravenous therapy.

	<p><b>Formulate nursing care plans based on the needs of a patient with diverse disease processes.</b></p> <p>NURS 240 - Apply the nursing process in the care of an adult surgical patient.</p> <p>NURS 240 - Implement nursing care specific to nutrition, mobility, and safety in the patient undergoing surgical intervention.</p> <p>NURS 240 - Formulate a teaching plan for a patient or patient's family related to self-management.</p> <p>NURS 240 - Demonstrate effective communication utilizing SBAR and through electronic charting, with an emphasis on teamwork and collaboration.</p>
<b>Requisite Skill:</b>	Students with an equivalent or licensed Registered Nurse or Vocational Nurse will be able to successfully comprehend intermediate to advanced pathophysiologic concepts.
<b>Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable</b>	
<b>Requisite course:</b>	
<b>Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).</b>	
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<b>Enrollment Limitations and Category:</b>	
<b>Enrollment Limitations Impact:</b>	
<b>Course Created by:</b>	Linda Leon
<b>Date:</b>	08/01/1997
<b>Original Board Approval Date:</b>	10/20/1997
<b>Last Reviewed and/or Revised by:</b>	Robbie Lee
<b>Date:</b>	03/11/2024
<b>Last Board Approval Date:</b>	06/17/2024
<b>Effective Term:</b>	FALL 2025