



# El Camino College

## COURSE OUTLINE OF RECORD - Official

### I. GENERAL COURSE INFORMATION

**Subject and Number:** Nursing 210  
**Descriptive Title:** Implications of Pathophysiology Concepts for Nurses

**Course Disciplines:** Nursing  
or Health Care Ancillaries

**Division:** Health Sciences and Athletics

**Catalog Description:** 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.

**Conditions of Enrollment: Prerequisite**  
Nursing 153  
with a minimum grade of C  
or  
licensed Registered Nurse or Vocational Nurse

**Course Length:**  Full Term  Other (Specify number of weeks):  
**Hours Lecture:** 2.00 hours per week  TBA  
**Hours Laboratory:** 0 hours per week  TBA  
**Course Units:** 2.00

**Grading Method:** Letter  
**Credit Status:** Associate Degree Credit

**Transfer CSU:**  Effective Date: 10/20/1997  
**Transfer UC:**  No

**General Education:**

**El Camino College:** \_\_\_\_\_

**CSU GE:** \_\_\_\_\_

**IGETC:** \_\_\_\_\_

### II. OUTCOMES AND OBJECTIVES

**A. COURSE STUDENT LEARNING OUTCOMES** (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)

1. The student will define and explain common disorders and diseases related to the body systems.
2. The student will apply pathophysiologic concepts for the interdisciplinary management of patient care utilizing evidenced-based clinical practices.
3. The student will utilize pathophysiologic concepts to promote health education.

The above SLOs were the most recent available SLOs at the time of course review. For the most current SLO statements, visit the El Camino College SLO webpage at <http://www.elcamino.edu/academics/slo/>.

**B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below, along with a representative assessment method for each)**

1. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the cardiovascular system.

Quizzes

2. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the pulmonary system.

Class Performance

3. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the endocrine system.

Written homework

4. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the renal system.

Homework Problems

5. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the hepatobiliary system.

Oral exams

6. Explain the etiology, pathogenesis, clinical manifestations, diagnostics, and nursing management of selected illness related to the gastrointestinal system.

Quizzes

**III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)**

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	6	I	Selected Cardiovascular Pathologies A. Pathogenesis B. Clinical manifestations C. Diagnostics D. Nursing management
Lecture	6	II	Selected Pulmonary Pathologies A. Pathogenesis

			B. Clinical manifestations C. Diagnostics D. Nursing management
Lecture	6	III	Selected Endocrine Pathologies A. Pathogenesis B. Clinical manifestations C. Diagnostics D. Nursing management
Lecture	6	IV	Selected Renal Pathologies A. Pathogenesis B. Clinical manifestations C. Diagnostics D. Nursing management
Lecture	6	V	Selected Hepatobiliary Pathologies A. Pathogenesis B. Clinical Manifestations C. Diagnostics D. Nursing management
Lecture	6	VI	Selected Gastrointestinal Pathologies A. Pathogenesis B. Clinical manifestations C. Diagnostics D. Nursing management
<b>Total Lecture Hours</b>		36	
<b>Total Laboratory Hours</b>		0	
<b>Total Hours</b>		36	

#### IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

##### A. PRIMARY METHOD OF EVALUATION:

Substantial writing assignments

##### B. TYPICAL ASSIGNMENT USING PRIMARY METHOD OF EVALUATION:

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.

##### C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. Create a Nursing Care Plan that assesses how underlying pathophysiological concepts determine patient symptoms and nursing care.
2. 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.

**D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:**

Other exams

Quizzes

Reading reports

Written homework

Multiple Choice

Completion

Matching Items

Other (specify):

Case studies

Presentation

**V. INSTRUCTIONAL METHODS**

Discussion

Group Activities

Internet Presentation/Resources

Lecture

Multimedia presentations

Other (please specify)

Case studies

**Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.**

**VI. WORK OUTSIDE OF CLASS**

Study

Answer questions

Required reading

Problem solving activities

Written work

**Estimated Independent Study Hours per Week: 4**

**VII. TEXTS AND MATERIALS**

**A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS**

Carol Mattson Porth. Essentials of Pathophysiology: Concepts of Altered Health States. 4th ed. Lippincott Williams & Wilkins, 2014.

Qualifier Text: "Designed to present students with essential concepts of disease processes and altered health states, this third edition text is ideal for both discrete and integrated pathophysiology courses." -Qualifier description provided by publisher. ,

**B. ALTERNATIVE TEXTBOOKS**

**C. REQUIRED SUPPLEMENTARY READINGS**

**D. OTHER REQUIRED MATERIALS**

Nursing 210 Course Syllabus

**VIII. CONDITIONS OF ENROLLMENT**

**A. Requisites (Course and Non-Course Prerequisites and Corequisites)**

Requisites	Category and Justification
Course Prerequisite Nursing-153 or	Sequential
Non-Course Prerequisite	Students with an equivalent or licensed Registered Nurse or Vocational Nurse will be able to successfully comprehend intermediate to advanced pathophysiologic concepts.

**B. Requisite Skills**

Requisite Skills
<p>Must understand the nature and mechanisms of fluid and electrolyte balance versus imbalance. Must be able to formulate nursing care plans bases on the needs of a patient with diverse disease processes. NURS 153 -</p> <p>Assess, plan, implement, and evaluate adult client nursing care for selected problems associated with physical integrity, respiratory, activity-rest, ingestive, excretory, and sexual needs. NURS 153 -</p> <p>Formulate nursing care plans using accepted nursing diagnoses correlated with the seven basic needs: physical integrity, respiratory, activity-rest, ingestive, excretory, and sexual needs of adult clients. NURS 153 -</p> <p>Utilize and analyze the nursing process in caring for adult clients with moderately severe need imbalances. NURS 153 -</p> <p>Assess, plan, implement, and evaluate nursing care specific to the client undergoing surgical intervention. NURS 153 -</p> <p>Examine the nature and mechanism of fluid and electrolyte balance versus imbalance. NURS 153 -</p> <p>Examine and relate the problems in nutrient metabolism to the complications that results from these problems.</p>

**C. Recommended Preparations (Course and Non-Course)**

Recommended Preparation	Category and Justification
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**D. Recommended Skills**

Recommended Skills
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**E. Enrollment Limitations**

Enrollment Limitations and Category	Enrollment Limitations Impact
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**Course created by Linda Leon on 08/01/1997.**

**BOARD APPROVAL DATE: 10/20/1997**

**LAST BOARD APPROVAL DATE: 11/20/2017**

**Last Reviewed and/or Revised by Clara Sic Alonzo on 10/31/2014**

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