

CATALOG INFORMATION

Dept and Nbr: HLC 140

Title: HEALTH CARE IMPLIC A & P

Full Title: Health Care Implications of Anatomy and Physiology

Last Reviewed: 9/11/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 52.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**  
Implications of anatomy and physiology for patient care, including relationship of body structures and functions to health and disease. Designed as preparation for selected health sciences programs.

**Prerequisites/Corequisites:**  
Course Completion or Current Enrollment in ANAT 140

**Recommended Preparation:**  
Eligibility for ENGL 100 or ESL 100

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: Implications of anatomy and physiology for patient care, including relationship of body structures and functions to health and disease. Designed as preparation for selected health sciences programs. (Grade or P/NP)  
Prerequisites/Corequisites: Course Completion or Current Enrollment in ANAT 140  
Recommended: Eligibility for ENGL 100 or ESL 100  
Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of this course the student will be able to:

1. Discuss the importance of body planes and regions to patient care.
2. Discuss the relationship of homeostasis to specific elements of patient care.
3. Differentiate between healthy and compromised skin.
4. Discuss the implications of cell damage and necrosis for health care conditions.
5. Discuss body mechanics as related to specific health care situations and conditions.
6. Describe the possible effects of immobility on skeletal muscle, bone, and joints.
7. Discuss the signs and symptoms of pain in adults and young children.
8. Explain how the stress response is related to disease.
9. Recognize health problems arising from loss of vision/hearing/balance.
10. Identify and describe health care problems related to coronary artery disease.
11. Describe the local and systemic effects of inflammation.
12. Describe common manifestations of respiratory disease and patient care implications.
13. Recognize general manifestations of urinary disorders and discuss patient care implications.
14. Compare and contrast nutritional needs for healthy and ill individuals.
15. Discuss common manifestations of digestive system disorders and patient care implications.

### **Topics and Scope:**

- I. Use of Body Planes and Regions in Patient Care

- II. Homeostasis and Illness
  - A. Maintaining homeostasis
  - B. Fluid imbalance
- III. Cells, Tissue, and Organs
  - A. Cellular adaptations
  - B. Cell damage and necrosis
  - C. Healthy and compromised skin
- IV. Muscular and skeletal Systems
  - A. Effects of immobility
  - B. Body mechanics
- V. Nervous System
  - A. Pain
  - B. Stress and disease
  - C. Motor dysfunction
  - D. Stroke
- VI. Eye and Ear
  - A. Working with patients with vision loss
  - B. Hearing loss issues
  - C. Balance issues
- VII. Circulation
  - A. Alterations in blood pressure
  - B. Coronary artery disease
- VIII. Immune System
  - A. Inflammation and healing
  - B. Development and clinical signs and symptoms of infection
- IX. Respiratory System
  - A. Gas exchange
  - B. Common manifestations of respiratory disease and patient care implications
- X. Urinary System
  - A. General manifestations of urinary system disorders and patient care implications
  - B. Diagnostic tests
- XI. Digestive System
  - A. Common manifestations of digestive system disorders and patient care implications
  - B. The healthy diet
- XII. Reproduction
  - A. Sexual health
  - B. Contraception
  - C. Pregnancy and childbirth

**Assignment:**

1. Read selected topics in textbook: Approximately 5 - 10 pages per week.
2. Complete weekly chapter assignments.
3. View selected CD's and videos and complete worksheets.
4. Research paper (3-5 pages) on a patient care implications of an aspect of anatomy and physiology.
5. Quizzes (3-8), 1 Mid-Term Exam, and 1 Final Exam.

## Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Research paper; worksheets.

Writing  
20 - 30%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Chapter assignments.

Problem solving  
10 - 20%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion, Short answer.

Exams  
40 - 60%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation.

Other Category  
5 - 10%

## Representative Textbooks and Materials:

Barbara E. Gould, Physiology for the Health Professions, W.B. Saunders Company, 2006.

Instructor prepared materials.