HLC 140 Course Outline as of Fall 2006

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:

AS Degree: Area Effective: Inactive: CSU GE: Transfer Area Effective: Inactive:

IGETC: Transfer Area Effective: Inactive:

CSU Transfer: Effective: Inactive:

UC Transfer: 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.