HLC 140 Course Outline as of Fall 2018

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	ľ	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	6	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 1A or equivalent

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 1A or equivalent

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

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Recognize and discuss implications of anatomy and physiology for patient care, including relationship of body structures and functions to health and disease.

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. Describe the possible effects of immobility on muscular skeletal system and other body systems.
- 6. Discuss implications of pain symptoms and relationship to vital signs.
- 7. Explain how the stress response is related to disease.
- 8. State health problems arising from loss of vision/hearing/balance.
- 9. Identify and describe health care problems related to heart and coronary artery disease.
- 10. Describe the local and systemic effects of inflammation and immune system dysfunction.
- 11. Describe common manifestations of respiratory disease and patient care implications.
- 12. State general manifestations of urinary disorders and discuss patient care implications.
- 13. Discuss the value of diet and nutrition and its relation to healing and contribution to diseases.
- 14. Discuss common manifestations of digestive system disorders and patient care implications.
- 15. Discuss common manifestations of reproductive disorders, male and female.

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. Diagnostic tests
 - A. Lab analysis
 - B. Scopes and imaging
- V. Muscular skeletal systems
 - A. Effects of immobility
 - B. Body mechanics
- VI. Nervous system
 - A. Pain
 - B. Stress and disease
 - C. Motor dysfunction
 - D. Stroke
- VII. Eye and ear
 - A. Working with patients with vision loss
 - B. Hearing loss issues
 - C. Balance issues
- VIII. Endocrine system: hormonal imbalances
- IX. Circulation
 - A. Alterations in blood pressure
 - B. Coronary artery and heart disease
- X. Immune system
 - A. Inflammation and healing
 - B. Development and clinical signs and symptoms of infection
 - C. Auto immune disease
- XI. Respiratory system
 - A. Gas exchange
 - B. Common manifestations of respiratory disease and patient care implications
- XII. Urinary system disease process
- XIII. Digestive system disease process
- XIV. Reproductive system disease process

Assignment:

- 1. Read selected topics in textbook: approximately 8-10 pages per week
- 2. Complete weekly chapter assignments from textbook
- 3. Research paper (5-7 pages) on a disease and its associated patient care implications
- 4. Partner presentation to class on disease and the associated health care implications
- 5. Case studies (1-2) a week
- 6. Midterm exams (2) and final exam (1)

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, case studies

Writing 15 - 20%

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

Chapter assignments

Problem solving 15 - 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.

Two midterms and one final exam

Exams 50 - 60%

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

Attendance and presentation

Other Category 10 - 20%

Representative Textbooks and Materials:

Anatomy, Physiology and Disease. 2nd ed. Colbert, Bruce and Ankney, Jeff and Lee, Karen. Pearson. 2013 (classic)
Instructor prepared materials