ANAT 140 Course Outline as of Fall 2011

CATALOG INFORMATION

Dept and Nbr: ANAT 140 Title: FUNDAMENTALS ANAT/PHYSIO

Full Title: Fundamentals of Anatomy and Physiology

Last Reviewed: 2/10/2020

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	1.50	17.5	Lecture Scheduled	26.25
Minimum	2.00	Lab Scheduled	2.00	8	Lab Scheduled	35.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.50		Contact Total	61.25
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 52.50 Total Student Learning Hours: 113.75

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:

Course covers the fundamentals of human anatomy and physiology. For students in dental assisting, psychiatric technician and medical assisting programs.

Prerequisites/Corequisites:

Recommended Preparation:

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:

Description: Course covers the fundamentals of human anatomy and physiology. For students in dental assisting, psychiatric technician and medical assisting programs. (Grade or P/NP)

Prerequisites/Corequisites:

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:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course students will be able to:

- 1. Explain the basic structural plan of the human body and the concept of homeostasis.
- 2. Name the organ systems, identify the major organs, and describe their functions.
- 3. Summarize the structures and functions necessary to accomplish movement of the body.
- 4. Compare how body-wide communication is accomplished by the nervous and endocrine systems.
- 5. Describe the structure and functions of the eye and ear.
- 6. Name the factors essential for life, and describe how they are supplied, transported and regulated inside the body.
- 7. Compare the various structures and processes used for defense against injury and infection.
- 8. Describe human reproductive structures and functions.

Topics and Scope:

- I. Introductory concepts
 - A. levels of biological organization
 - B. anatomical terminology
 - C. body planes, cavities
 - D. homeostasis
- II. Cells, tissues, organs
 - A. cells
 - 1. organelles
 - 2. macromolecules
 - 3. cell membranes
 - B. tissues
 - C. organs
 - D. skin

III. Support and movement

- A. Skeletal system
 - 1. bones
 - 2. joints
 - 3. hemopoiesis
- B. Muscular System
 - 1. muscles
 - 2. movement

IV. Control systems

- A. Nervous system
 - 1. neurons and synapses
 - 2. CNS central nervous system
 - 3. PNS peripheral nervous system
 - 4. special senses: eye and ear
- B. Endocrine system
 - 1. endocrine glands
 - 2. hormones
- V. Internal environment
 - A. Circulation
 - 1. cardiovascular system
 - 2. lymphatic system
 - B. Immune system
 - 1. inflammation
 - 2. specific immune response
 - C. Respiratory system
 - 1. lungs, thoracic cavity
 - 2. regulation of respiration
 - D. Urinary System
 - 1. kidneys & nephrons
 - 2. urine formation
 - 3. regulation: water, salt, pH, blood pressure
 - E. Digestive system
 - 1. gastrointestinal tract and accessory glands
 - 2. digestion
- VI. Reproduction
 - A. male reproductive structures and functions
 - B. female reproductive structures and functions

Assignment:

- 1. Weekly reading in text, 25-30 pages
- 2. Study of charts, models, and specimens during lab hours
- 3. Performance of simple physiological lab exercises
- 4. Homework assignments: brief reports on lab activities, labeling diagrams; averaging one assignment every week
- 5. Formal assessment: 11 quizzes, 2 midterm exams and 1 final exam including objective, labeling, and essay questions

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.

None, This is a degree applicable course but assessment tools based on writing are not included because this course includes essay exams that fulfil the writing component of the course.

Writing 0 - 0%

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

Homework

Problem solving 10 - 15%

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, completion, labeling and essay

Exams 70 - 80%

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

Participation in Lab

Other Category 5 - 20%

Representative Textbooks and Materials:

ANATOMY, PHYSIOLOGY, AND DISEASE, Colbert, Ankney, Lee; Pearson Publishing, 2009 Instructor Prepared Materials