ANAT 1 Course Outline as of Fall 2008

CATALOG INFORMATION

Dept and Nbr: ANAT 1 Title: GENERAL HUMAN ANATOMY
Full Title: General Human Anatomy
Last Reviewed: 10/8/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	5.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	5.00	Lab Scheduled	6.00	8	Lab Scheduled	105.00
		Contact DHR	0		Contact DHR	0
		Contact Total	9.00		Contact Total	157.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00 Total Student Learning Hours: 262.50

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:
Study of gross and microscopic structure of human tissues, organs and organ systems; includes dissection of human cadavers. (Intended for nursing and dental hygiene majors)

Prerequisites/Corequisites:
Completion of BIO 10 or higher (V7)

Recommended Preparation:
Eligibility for ENGL 1A or equivalent

Limits on Enrollment:

Schedule of Classes Information:
Description: Study of gross and microscopic structure of human tissues, organs and organ systems; includes dissection of human cadavers. (Intended for nursing and dental hygiene majors) (Grade or P/NP)
Prerequisites/Corequisites: Completion of BIO 10 or higher (V7)
Recommended: Eligibility for ENGL 1A or equivalent
Limits on Enrollment:
Transfer Credit: CSU;UC. (CAN BIOL10)(PHYSIO 1+ANAT 1=BIOL SEQ B)

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

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**		Effective:	Inactive:
	C	Natural Sciences	Fall 1981	
CSU GE:	**Transfer Area**		Effective:	Inactive:
	B2	Life Science	Fall 1981	
	B3	Laboratory Activity		
IGETC:	**Transfer Area**		Effective:	Inactive:
	5B	Biological Sciences	Fall 1981	
	5C	Fulfills Lab Requirement		

CSU Transfer:	Transferable	Effective:	Fall 1981	Inactive:
UC Transfer:	Transferable	Effective:	Fall 1981	Inactive:

CID:
CID Descriptor: BIOL 110B Human Anatomy with Lab
SRJC Equivalent Course(s): ANAT1

Certificate/Major Applicable:
Major Applicable Course

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course students will be able to:
1. Describe the basic anatomical design of the human body, including its bilateral symmetry, segmentation, tube within a tube design, cavities, and fluid compartments.
2. Name the organ systems of the body and describe their basic structural design and function.
3. Recognize and describe the major organs of each system, including their location in the body, gross anatomy, histological features, and function.
4. Differentiate the four major tissue types, identify the subtypes of each of the major tissue types, and locate them in body structures.
5. Identify the specific anatomical structures listed in the lab manual using models, charts, specimens, cadavers, and skeletons.
6. Evaluate the various features of the body which are designed to provide protection for the essential organs and functions.
7. Perform a simple dissection of some major organs in a cadaver.

Topics and Scope:

I. Human Body Introduction
   A. Human body plan
   B. Body cavities
   C. Planes and reference terms
   D. Levels of biological organization

II. Cells and Tissues
  A. Cell diversity and organelles
  B. Epithelial tissues
  C. Connective tissue proper
III. Integumentary System
  A. Skin
    1. epidermis and dermis
    2. glands
    3. sensory receptors
  B. Accessory structures: hair, nails
IV. Skeletal System
  A. Bone and cartilage tissue
  B. Bones as organs
  C. Axial skeleton
  D. Appendicular skeleton
  E. Joints
V. Muscular System
  A. Muscle tissue
  B. Sliding filament theory of muscle contraction
  C. Muscles as organs
  D. Muscle actions
VI. Circulatory System
  A. Coelom and viscera
  B. Heart structure and function
  C. Circuits and blood vessels
  D. Blood composition and cells
  E. Lymphatic System
VII. Nervous System
  A. Nervous tissue
  B. Central nervous system
    1. spinal cord
    2. brain
    3. meninges and cerebrospinal fluid circulation
  C. Peripheral nervous system
    1. cranial nerves
    2. spinal nerves
  D. Autonomic nervous system
  E. Special senses
    1. eye
    2. ear
VIII. Digestive System
    A. Organs of the gastrointestinal tract
    B. Accessory organs; glands
IX Respiratory System
X. Urinary System
XI. Reproductive System
  A. Male reproductive system
  B. Female reproductive system
XII. Laboratory Material

All of the above mentioned structures will also be studied by means of histological specimens, models, charts, specimens and human cadavers during the laboratory portion of the course.

XIII. Cadaver Dissection

Assignment:

1. Weekly reading in text, 30-60 pages per week
2. Selected dissection on human cadavers
3. Study of histological slides, models, specimens and cadavers during regular and open lab hours, 8-12 hours per week
4. Formal assessment: 7 lab practical exams, 3 midterm exams and a cumulative final exam including objective 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.

Lab practical exams	Problem solving 30 - 50%

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

Cadaver dissection	Skill Demonstrations 5 - 10%

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

Multiple choice, Completion, Midterm exams, essay questions	Exams 40 - 65%

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

None	Other Category 0 - 0%

Representative Textbooks and Materials:
PRINCIPLES OF HUMAN ANATOMY, Gerald Tortora, 11th Edition, John Wiley & Sons, 2009
HUMAN ANATOMY, Frederic Martini & Michael Timmons, 5th Edition, Prentice Hall, 2006
HUMAN ANATOMY, Elaine Marieb, Jon Mallatt, Patricia Wilhelm, 5th edition,

Benjamin Cummings, 2007
WHEATER'S FUNCTIONAL HISTOLOGY, Barbara Young , John Heath, Churchill Livingstone, & Mark Nelson, 5th edition, 2006
A PHOTOGRAPHIC ATLAS OF HISTOLOGY, Michael Leboffe, Morton Publishing, 2003
Instructor prepared materials: lab manual