ANAT 1 Course Outline as of Spring 2021

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) and Course Completion of ENGL 1A (OR ESL 10) or appropriate placement based on AB705 mandates

Recommended Preparation:

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) and Course Completion of ENGL 1A (OR ESL 10) or appropriate placement based on AB705 mandates
Recommended:

Limits on Enrollment:
Transfer Credit: CSU;UC.
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

Student Learning Outcomes:
At the conclusion of this course, the student should be able to:
1. Describe in detail the structure and basic functions of the tissues, organs, and systems of the human body.
2. Identify tissues and organs of the body using histological slides, models, charts, specimens, human cadavers, and skeletons.

Objectives:
In order to achieve these learning outcomes, during the course the students will:
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 structure and functions.
3. Recognize and describe the organs of each system, including their location in the body, gross anatomy, histological features, and functions.
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 textbook using histological slides, models, charts, specimens, human cadavers, and skeletons.
6. Evaluate the various features of the body which provide protection for the essential organs and functions.
7. Perform a 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
- B. Accessory structures: hair, nails, glands

IV. Skeletal System
- A. Bone and cartilage tissue
- B. Bones as organs
- C. Axial skeleton
- D. Appendicular skeleton
- E. Joints
- F. Surface anatomy

V. Muscular System
- A. Muscle tissue
- B. Sliding filament theory of muscle contraction
- C. Muscles as organs
- D. Muscle actions

VI. Circulatory Systems
- 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 and glands

IX Respiratory System

X. Urinary System

XI. Reproductive System
- A. Male reproductive system
- B. Female reproductive system

XII. Laboratory Material
The above-mentioned systems will also be described and identified by means of histological slides, models, charts, specimens, human cadavers, and skeletons during the laboratory portion of the course.

Assignment:

Lecture Related Assignments:
1. Weekly reading in text: 30-60 pages per week
2. Informal assessment: 0-30 preparatory quizzes and 0-3 reflection papers
3. Formal assessment: 2-4 lecture exams and a cumulative final lecture exam including objective and
   essay questions that demonstrate writing skills and require students to select, organize and explain ideas in writing with correct spelling

Lab Related Assignments:
1. Selected dissection on human cadavers
2. Study of histological slides, models, charts, specimens, human cadavers, and skeletons during regular and open lab hours: 8-12 hours per week
3: Informal assessment: 0-30 preparatory quizzes and/or homework assignments
4. Formal assessment: 4-7 lab practical exams, including an optional cumulative final lab 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.

Reflection papers	Writing 0 - 10%

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

None	Problem solving 0 - 0%

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

Cadaver dissection	Skill Demonstrations 4 - 10%

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

Lab practical exams; lecture exams and cumulative final exam including multiple choice, completion, diagramming, and essay questions	Exams 75 - 90%

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

Preparatory quizzes and/or homework assignments	Other Category 0 - 20%

Representative Textbooks and Materials:
Human Anatomy. 9th ed. Marieb, Elaine and Mallatt, Jon and Wilhelm, Patricia. Pearson. 2019
Principles of Human Anatomy. 14th ed. Tortora, Gerald and Nielsen, Mark. Wiley. 2017
Human Anatomy. 9th ed. Martini, Frederic and Timmons, Michael and Tallitsch, Robert. Pearson. 2019
Human Anatomy. 6th ed. McKinley, Michael and O'Loughlin, Valerie and Pennefather-O'Brien, Elizabeth. McGraw Hill. 2021
A Photographic Atlas Of Histology. 2nd ed. Leboffe, Michael. Morton Publishing. 2013 (classic)
Instructor prepared materials: lab manual textbook