ANAT 58 Course Outline as of Spring 2022

CATALOG INFORMATION

Dept and Nbr: ANAT 58 Title: INTRO TO HUMAN ANATOMY
Full Title: Introduction to Human Anatomy
Last Reviewed: 2/10/2020

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	6	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00 Total Student Learning Hours: 157.50

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:
A survey of human anatomy, including study of tissues, organs, and organ systems. This introductory course is designed for students who require a fundamental background in human anatomy. Course is a prerequisite for radiologic technology and Licensed Vocational Nursing (LVN); an alternative prerequisite for medical assisting programs; it is not intended for nursing (RN), dental hygiene, or physical therapy majors.

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: A survey of human anatomy, including study of tissues, organs, and organ systems. This introductory course is designed for students who require a fundamental background in human anatomy. Course is a prerequisite for radiologic technology and Licensed Vocational Nursing (LVN); an alternative prerequisite for medical assisting programs; it is not intended for

nursing (RN), dental hygiene, or physical therapy majors. (Grade or P/NP)
Prerequisites/Corequisites:
Recommended:
Limits on Enrollment:
Transfer Credit: CSU;
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 2025	
	L5	Physical and Biological Sciences		
	C	Natural Sciences	Fall 1981	Fall 2025
CSU GE:	**Transfer Area**		Effective:	Inactive:
IGETC:	**Transfer Area**		Effective:	Inactive:

CSU Transfer:	Transferable	Effective:	Fall 1981	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. Describe the structure and primary function of the major tissues, organs, and systems of the human body.
2. Identify and use a variety of resources for learning anatomy.

Objectives:
At the conclusion of this course, the student should be able to:
1. Describe the relation of anatomy to other biological disciplines and the field of medicine.
2. Name the steps of the scientific method and describe the relation of the method to current knowledge of the human anatomy.
3. Name the organ systems of the body and describe their basic structural design and function.
4. Apply appropriate laboratory skills, including use of a light microscope, observation and comparison of tissue structure, and use of basic anatomical terminology.
5. Identify the specific anatomical structures listed in the lab manual using models, charts, specimens, and skeletons.
6. Utilize appropriate laboratory resources, including texts, lab manuals, reference books, charts, models, laboratory specimens to enhance the study of histological and anatomical structures.

Topics and Scope:

I. Anatomy and Biology
- A. Scientific method
- B. Levels of organization
- C. Anatomic vocabulary, relational terms, body cavities

II. Cells and Organelles
- A. Cells
- B. Organelles

III. Tissues
- A. Major tissue types
- B. Epithelial tissue subtypes
- C. Connective tissue subtypes

IV. Integumentary System
- A. Epidermis and dermis
- B. Glands
- C. Sensory receptors

V. Skeletal System
- A. Bone and cartilage tissues
- B. Bones as organs
- C. Axial skeleton
- D. Appendicular skeleton
- E. Joints

VI. Muscular System
- A. Muscle tissue
- B. Muscles as organs

VII. Nervous System
- A. Nervous tissue
- B. Central nervous system
  1. Brain
  2. Spinal cord
  3. Meninges and cerebrospinal fluid circulation
- C. Peripheral nervous system
- D. Autonomic nervous system
- E. Special senses
  1. Eye
  2. Ear

VIII. Circulatory Systems
- A. Cardiovascular System
  1. Heart structure and function
  2. Circuits and blood vessels
  3. Blood composition and cells
- B. Lymphatic System

IX. Respiratory System
- A. Conducting Zone
- B. Respiratory Zone

X. Digestive System
- A. Alimentary Canal
- B. Accessory Organs

XI. Urinary System: Kidney and Nephron

XII. Endocrine System

XIII. Reproductive System

A. Male reproductive system
B. Female reproductive system

XIV. Laboratory Material

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

Assignment:

1. Weekly reading:
   a. Lecture-related assignments: in text, 10-25 pages per week
   b. Lab-related assignments: in text, 6-12 pages per week
2. Homework assignments (5-17 per semester)
3. Writing:
   a. Optional clicker questions
   b. Optional reflection paper (1-3 pages)
   c. Optional term paper (2-5 pages) in which students will describe the relevant anatomy in a popular or professional published article
4. Formal assessment:
   a. Lecture-related assessments: quizzes (2-8), Four lecture exams (including essay and objective questions)
   b. Lab-related assessments: Four lab practical exams

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.

Homework assignments, optional reflection paper, optional term paper, optional clicker questions	Writing 15 - 30%

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.

None	Skill Demonstrations 0 - 0%

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

Quizzes, lecture exams, lab practical exams	Exams 60 - 80%

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

Participation	Other Category 0 - 10%

Representative Textbooks and Materials:
Mader’s Understanding Human Anatomy and Physiology. 10th ed. Longenbaker, Susannah. 2019
Anatomy and Physiology Revealed, version 3 (APR3.0). online McGraw-Hill website
Anatomy 58 Course Notes (Instructor-Prepared Material)
Anatomy 58 Lab Manual (Instructor-Prepared Material)