

# BIOL 200: HUMAN ANATOMY

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	4
Total Contact Hours:	108
Lecture Hours :	54
Lab Hours:	54
Hours Arranged:	0
Outside of Class Hours:	108
Prerequisite:	BIOL 105 or BIOL 105H or BIOL 124.
District General Education:	B1. Natural Sciences - Life Sciences, B3. Natural Sciences - Laboratory
Transferable to CSU:	Yes
Transferable to UC:	Yes - Approved
Grading Method:	Standard Letter

## Catalog Course Description

Biology 200 is a lecture/laboratory course in human anatomy focusing on the structures and organs of the human body. Students will be required to learn and understand the structures from the molecular to gross levels, using the microscope, standard anatomical (plastic) models, and preserved specimens (sheep heart, sheep brain, and cat). Required of pre-nursing students. 54 lecture hours, 54 lab hours.

## Course Objectives

- identify by name various anatomical parts, be able to locate them and understand their basic structures
- identify how various anatomical structures are integrated
- use the microscope to identify cells and tissues which are the units of structure of the organ systems
- describe the function of organ systems
- observe and analyze differences in anatomical specimens in order to practice scientific laboratory methods
- utilizing cell structure to understand and identify different tissues
- develop an understanding of how the human body is organized to display the relationship of structure and function
- develop and understanding of the structure of all of the body's systems to display how each system is an integral part of each other
- develop and understanding of the structure of all of the body's systems to show the similarities and differences of how each system is organized

## Major Course Content

1. Introduction to Anatomy
2. External Anatomy
3. Cell structure and function
4. Tissues
5. The Skeletal System
6. Articulations
7. The Muscular System

8. The Integumentary System
9. The Respiratory System
10. The Digestive System
11. The Urinary System
12. The Reproductive System
13. Embryology
14. The Cardiovascular System
15. The Lymphatic System
16. The Nervous System
17. Endocrinology

## Lab Content

1. Microscopy, Cell Structure, Histology
2. Axial Skeleton
3. Appendicular Skeleton & Articulations
4. The Muscular System, Human & Cat
5. The Integumentary System
6. The Respiratory System
7. The Digestive System
8. The Urinary System
9. The Reproductive System
10. Blood
11. The Cardiovascular System
12. The Lymphatic System
13. The Nervous System

## Suggested Reading Other Than Required Textbook

Lab manual and outside research articles/papers

## Examples of Required Writing Assignments

Written questions on exams and discussion questions such as: Why is respiratory rhythm and depth of breathing primarily regulated by carbon dioxide generated hydrogen ions? What is the structural difference between a conducting artery and distributing artery?

## Examples of Outside Assignments

Answer discussion/homework questions such as  
Define mediastinum What is a motor unit? What neurotransmitter is released by a motor neuron onto a skeletal myofiber? What are the 3 fused regions of the coxal? What is the function of surfactant? What are the 3 structures that filter blood plasma into urine? What are the spongy masses of the penis? What are dendrites?

Read required materials

Write essays, research papers, lab reports, or journals

Observe activities related to course content

Keep lab notebook

## Instruction Type(s)

Lecture, Lab, Online Education Lecture, Online Education Lab

## **IGETC Area 5: Physical and Biological Sciences**

5B. Biological Science, 5C. Science Laboratory