



BIOL 20 - Human Anatomy

Catalog Description

Transfer Status: CSU/UC

Unit(s): 4.00

Lecture: 51.00 Contact hours/102.00 Out of class hours/153.00 Total hours/3.00 Unit(s)

Lab: 51.00 Contact hours/0.00 Out of class hours/51.00 Total hours/1.00 Unit(s)

Total: 102.00 Contact hours/102.00 Out of class hours/204.00 Total hours/4.00 Unit(s)

Course Description: Structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization. This course is primarily intended for nursing, allied health, kinesiology, and other health related majors. (C-ID BIOL 110B).

Objectives

Upon successful completion of this course, the student should be able to:

- 1. Describe key structural features of different human cell and major tissue types.
2. Identify and describe the anatomy of the systems of the human body.
3. Relate structure and function at the cellular through system levels of organization of human body systems.
4. Describe structural or anatomical changes that occur in disease, injury or aging of the human body systems.

Course Content

Topic Titles / Suggested Time Topic

Lecture

Table with 2 columns: Topics and Lec Hrs. Lists various anatomical topics and their corresponding lecture hours.

Total Hours: 51.00

Lab

Table with 2 columns: Topics and Lab Hrs. Lists various lab activities and their corresponding lab hours.

Total Hours: 51.00

## Methods of Instruction

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- A. Class Activities
- B. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- C. Instructor Demonstrations
- D. Reading Assignments

## Methods of Evaluation

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- A. Exams/Tests
- B. Demonstration
- C. Written Assignments
- D. Practical Evaluations
- E. Class Discussion
- F. Lecture Exams and Quizzes: These include written responses that require students to describe and explain class information., Laboratory Practical Exams and Quizzes: These require accurately spelled responses recalled from memory., Writing Requirement: The 1500 word writing requirement will be satisfied by the writing necessary on exams and other written assignments at the discretion of the instructor.

## Examples of Assignments

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### Reading Assignments

1. Read the chapter of your text about Tissues and be prepared for an in class discussion on the following classes of tissues: Epithelial, Connective, Muscle, Nervous.
2. Read the Clinical Note regarding Skin Disorders in Chapter 4 of your text (The Integumentary System) and be prepared for an in class discussion of the effects of prolonged exposure to sunlight.

### Writing Assignments

1. Write 2-3 paragraphs detailing the structure and function of the nephron during an in class assessment.
2. Write 2-3 paragraphs detailing the abundance, characteristics and functions of the different classes of leukocytes during an in class assessment.

### Out-of-Class Assignments

1. Take home a diagram of the heart, label each structure, and then provide a brief description of the labeled structures.
2. Take home a diagram of the cranial nerves, label each nerve, and then provide a brief function of each nerve.

## Recommended Materials of Instruction

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McKinley, O'Loughlin, Pennefather-O'Brien. (2020). Human Anatomy. *McGraw Hill*, 6th. 978-1260251357.  
Fugle, G. and K. White. (2008). Human Anatomy Laboratory Guide. *Butte College Publishing*.

### Other Learning Materials

Human anatomical models and charts, preserved human cadaver and organ specimens and fetal pigs for students dissection.

"Biology 20 - Resources for Lab Study." An online Butte College website containing various tutorial projects for review of laboratory materials. The site is available to all students enrolled in Biology 20 at Butte College:

## Minimum Qualifications

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Biological Sciences (Masters Required)

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**Created/Revised by:** Lechner, Gary

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