

BUTTE COLLEGE

COURSE OUTLINE

I. CATALOG DESCRIPTION

BIOL 30 - Anatomical Preparations

1.5 Unit(s)

Prerequisite(s): BIOL 20

Recommended Prep: Reading Level IV; English Level IV; Math Level IV

Transfer Status: CSU

17 hours Lecture

25.5 hours Lab

In this course students dissect a human cadaver and prepare anatomical specimens for use in Butte College Human Anatomy classes. Students will learn proper dissection techniques and pertinent details of the human form needed to complete quality dissection work.

II. OBJECTIVES

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

- A. Demonstrate effective dissection techniques.
- B. Demonstrate a 3-dimensional understanding of anatomical relationships for all structures discussed within each region of the body studied.

III. COURSE CONTENT

A. Unit Titles/Suggested Time Schedule

Lecture

<u>Topics</u>	<u>Hours</u>
1. Dissection and Lab Safety Procedures	1.00
2. Dissection Techniques and Care of Preserved Materials	1.00
3. Approaches to Muscle Dissection	6.00
4. Opening the Ventral Cavity	1.00
5. Dissecting Organs of the Face, Neck, Thorax, Abdomen and Pelvis	4.00
6. Dissection of the Brain	1.00
7. Approaches to Individual Project	3.00
Total Hours	17.00

Lab

<u>Topics</u>	<u>Hours</u>
1. Introduction to Dissection	1.00
2. Care of Preserved Materials	1.00
3. Muscle Dissections	9.00
4. Opening the Ventral Cavity	2.00
5. Internal Organ Dissections	7.00
6. Brain Dissection	2.00
7. Individual Projects	3.50
Total Hours	25.50

IV. METHODS OF INSTRUCTION

- A. Dissection by Students
- B. Student Projects
- C. Instructor Demonstration
- D. Group Discussions
- E. Reading Assignments
- F. Lecture

V. METHODS OF EVALUATION

- A. Research Projects
- B. Class Discussion
- C. Class Participation
- D. Dissection Presentations
- E. Dissection Quality
- F. Individual Dissection Projects

VI. EXAMPLES OF ASSIGNMENTS

- A. Reading Assignments
 - 1. Read the provided handout on removal of the spinal cord. Be prepared for an in class discussion of the technique prior to our dissection.
 - 2. Read the provided handout on removal of the skin and be prepared for an in class discussion of the following topics:
 - a. Incision location
 - b. Incision depth
- B. Writing Assignments
 - 1. Read the provided handout on laboratory safety. Write a 1 page summary of our safety procedures.
 - 2. Research a genetic disorder associated with an organ you dissected. Write a 1 page paper summarizing the topic.
- C. Out-of-Class Assignments
 - 1. Research a disease affecting a specific area of the human anatomy, and prepare a 5-7 minute PowerPoint presentation on the topic to the class.
 - 2. Use the provided Weblink to view a dissection. Be prepared for a discussion on dissection techniques used during the video.

VII. RECOMMENDED MATERIALS OF INSTRUCTION

Textbooks:

- A. Frank H. Netter. Atlas of Human Anatomy. 6th Edition. Saunders, 2014.

Materials Other Than Textbooks:

- A. Various Atlases of Human Anatomy - provided by the Biological Sciences Department.
- B. Cadaver Dissection Guides - provided by the Biological Sciences Department.
- C. Dissection Equipment, Lab Coats, Goggles and Gloves - provided by the Biological Sciences Department.