

DeAnza College Biology Department

BIOLOGY 40A

Human Anatomy and Physiology

Instructor: Bob Kalpin

COURSE SYLLABUS

Fall 2026

Course:	Biology 40A, section 27257 (#7Y) and 29082 (#12Y)
Lecture:	Online through Canvas https://deanza.instructure.com/
Lab:	Room SC2106 Tuesday 8:30-11:20 (7Y) or 11:30-2:20 (12Y)
Text:	Tortora and Derrickson, "Principles of Anatomy and Physiology" (16th Ed.) ISBN: 9781119662792
Lab Manual:	Marieb, Elaine. "Human Anatomy and Physiol. Laboratory" (13th Ed), ISBN: 9780134806365
Office Hours:	Science Resource Center (SC3) Tues. 8-8:30 Thurs. 8-9:30 Online (via Zoom) Wednesday 9-11 AM
e-mail:	kalpinbob@fhda.edu

Introduction

This five-unit course is the first of a three part series of anatomy and physiology classes. Topics include the study of cell chemistry, cell biology, histology and the integumentary, skeletal and muscular systems with emphasis on homeostatic mechanisms.

Course Aims and Objectives

- A. Investigate and critique the major historical events that have influenced the definition and advancement of current anatomical and physiological specialties and principles.
- B. Examine and critique the role of the scientific method in the study of anatomy and physiology as it relates to organizing information, evaluating evidence and drawing logical conclusions.
- C. Examine fundamental anatomical and physiological principles, anatomical terminology, the progression of structural levels of organization, and appraise these as they apply to the homeostasis of human systems.
- D. Investigate the chemical basis of life with an emphasis on the synthesis, structure and function of organic molecules and evaluate their role in normal human physiological functions, nutrition, and the biochemical basis of disease processes.
- E. Investigate the cellular basis of life and appraise the clinical and practical applications of cytology as they relate to normal cell functioning, aging, and disease processes.
- F. Examine the tissue level of organization of humans and interpret the role of tissues in human systems. Compare and contrast the location, organization and function of human tissues.
- G. Investigate the structure and function of the integumentary system and appraise the significance of the variations in its components to normal functions, immunity, adaptation and maintenance of homeostasis.
- H. Analyze the composition, structure and functions of skeletal tissue, the axial and appendicular skeleton, and human articulations. Evaluate the correlation of their structure/s to normal function/s and select issues of nutrition, disease, aging, stress, gender, and race.
- I. Identify the structural and physiological characteristics of various muscle tissues and evaluate these with respect to the muscle action, conditioning, homeostasis and muscle disorders. Contrast the location, organization and function/s of selected skeletal muscle group/s.

Student Learning Outcomes

- Demonstrate the scientific method as employed by health professionals to evaluate real-world problems involving the skin, skeletal, and muscle systems.
- Investigate the roles of molecules, organelles, and cells in the function of skin, skeletal, and muscle tissues.
- Infer the homeostatic reactions of skin, skeletal, and muscle cells and tissues in reaction to external or internal changes in conditions.

Bio40A Course Information

Prerequisites: Chemistry 1A or Chemistry 25 or Chemistry 30A with a grade of C or better, or satisfactory score on the Biology 40A Placement Test. Check with the BHES Division (Kirsch Center 408-864-8773) for pre-requisite information.

In addition, you are expected to read and write at the college level, be able to perform basic math, and read graphs and charts.

Required for all students: Video camera, computer, and broadband internet. Access to Canvas <https://deanza.instructure.com> is required. Exams and quizzes may require video camera access and may occur using video test proctoring through Zoom.

Attendance:

Each day that a student accesses any section of the Bio40A Canvas course is considered an attendance. Students are expected to attend a minimum of twice each week. A student who has not attended once in any two-week period may be dropped from the class.

In-person attendance in laboratory is mandatory. Students absent for more than two lab meetings may be dropped from the class.

Quizzes/Exams:

Quizzes: There will be 10 quizzes given throughout the semester. Quizzes will be worth 10 points each. Quizzes are administered in-person only during the specified lab times. Missed quizzes may not be made-up.

Exams: Two midterm exams and a final exam worth 100 points each will be given during the quarter. Make-up exams may be considered only for midterm exams, for legitimate, documented excuses only, and may be all-essay tests (you really don't want to take one of these!) It will be given within one week of the missed exam. There is no make-up exam allowed for the final exam.

Lab Reports and Participation:

Ten weekly lab activities will each be worth 5 points each and must be completed within the assigned weekly period. A variety of assigned activities may include dissection and analysis of mammalian organs or models, research assignments, lab worksheets, and contributing to discussions. Missed labs cannot be made up for points missed.

Academic Dishonesty:

De Anza College (and this instructor) has a strict no cheating/ plagiarism policy. Students found cheating, plagiarizing, or sharing answers without instructor permission, on class examinations, quizzes or homework will receive a grade of zero and be reported to the office of instruction. Read the entire policy here: http://www.deanza.edu/policies/academic_integrity.html

Students in this course must additionally abide by the rules set out in the student handbook put out by the Biological, Health, and Environmental Sciences Division.

(<http://www.deanza.edu/bhes/StudentHandbook.pdf>)

Important Dates

Sunday, October 4	Last day to drop without a "W"
Friday, November 13	Last day to drop with a "W"
Tuesday, December 8	Final Exam

Holidays

Thurs/Fri, Nov. 26/27	Thanksgiving Holiday
-----------------------	----------------------

Exams and Grading: All assignments are due on the dates specified in the assignment. Quizzes, exams, and other assignments are graded as soon as possible but always within one week. No late submissions. Missed exams may not be made up without approval *prior to the test date*. Cheating of any sort (including plagiarism) will result in a grade of zero without exception.

Grading is based on:

- Ten weekly quizzes (10 pts. each)
- Two midterm exams (100 pts. each)
- Comprehensive final exam (100 pts.)
- Ten laboratory reports (and lab participation) (5 pts. each)

Total points possible= 450

Grades for the course are calculated as follows:

Letter Grade	Percentage
A+	97%
A	92-96%
A-	89-91%
B+	86-88%
B	82-85%
B-	79-81%
C+	73-78%
C	66-72%
D	55-65%
F	<55%

Drop Policy

Students are responsible for dropping a class and must fill out the appropriate paperwork by the above deadline to officially drop the course. The instructor has the right to drop students who fail to attend in any two week period or are absent for more than two lab meetings.

Support Services

DeAnza College makes reasonable accommodations for persons with disabilities. Students should contact DSP&S (Disability Support Programs and Services): <http://deanza.edu/dsps>

Other Services

The DeAnza offers a wide variety of support services to help you through your college career. Services such as tutoring, short reading and writing skills classes, financial aid, programs in educational transition and help for disabled students are offered for your benefit:

<http://deanza.edu/studentservices>

<http://deanza.edu/studentssuccess>

Free Tutoring is available both in-person, by video conference or through Net Tutor.

Visit the Student Success Center: <http://deanza.edu/studentssuccess>

For Help With Canvas, Zoom, etc. visit the De Anza Online Education Center

<https://www.deanza.edu/online-ed/>

Bio 40A Schedule

<u>Week</u>	<u>Topic</u>
1- September 21	Introduction and Chemistry
2- September 28	Cell Biology
3- October 6	Tissue Biology
4- October 12	<u>Exam 1 Tuesday, October 13</u>
5- October 19	Integumentary System
6- October 26	Bone Tissue
7- November 2	Axial Skeleton
8- November 9	<u>Exam 2 Tuesday, November 10</u>
9- November 16	Appendicular Skeleton and Joints
10- November 23	Muscular Tissue
11-November 30	Muscular System
	<u>Final Exam Tuesday, December 8</u>

Bio 40A Exam Policies

1. Be on time for the exam. You may not begin an exam or quiz after five minutes from the specified start time.
2. Cheating will result in a zero on the entire exam.
3. Canvas will provide the instructor with a record of the student's computer location and usage/activity during the exam/quiz. These may be used to investigate cheating during an assessment.
4. Make-up exams are for **emergencies only**. You must notify me the day of the exam to let me know of your situation. There is no make-up exam allowed for the final exam. There are no make-ups for quizzes.
5. Make-up exams may be in an all-essay form and must be within one week of the missed exam.
6. Do not schedule appointments, other obligations, etc. during any designated exam or quiz time.