

Bio 54I

Applied Anatomy and Physiology: Coordination and Transport

Winter 2025 / 1.5 units

6 January - 13 February 2025

Course Description:

Bio 54 is a series of four online, asynchronous classes (G, H, I and J) that provide a broad survey of human anatomy and physiology. Each course is six weeks in duration.

In Bio 54I, we'll learn about the endocrine, blood, cardiovascular, lymphatic and immune systems. My hope is that you'll complete the class with a new appreciation for the amazing human body and practical knowledge for how to take care of the one body you have!

This course is especially suited for students planning careers in medical assisting, Licensed Vocational Nursing, education, speech, home economics, psychology, physical education, or recreation.

Enrolled students will have access to:

- Canvas course materials on the Friday before the term begins

Course Objectives:

- Distinguish between the endocrine and exocrine glands
- Explain how hormones affect target cells and describe gender and ethnicity differences in target cells
- Name the locations and actions of the major endocrine glands
- Describe the characteristics and functions of human blood
- Discuss the components of human blood and describe variations

- Explain the mechanisms of homeostasis
- Name and describe the functions of the major parts of the heart
- Discuss the cardiac cycle and how it is controlled
- Compare the structures and functions of the main types of blood vessels
- Describe the major parts and functions of the lymphatic system
- Explain the variety of the human defenses against infection

Student Learning Outcomes:

- Apply principles of homeostasis and distinguish between the mechanisms that regulate hormones as well as cardiovascular function.

Required Materials:

- Computer with internet and Wifi access
- Active fhda.edu email account
- **Pearson Mastering: Essentials of Human Anatomy and Physiology, 13th edition**, Marieb and Keller
 - IMPORTANT: This course utilizes the online Mastering resources. **You must purchase the Mastering subscription.** When you subscribe to Mastering, you will automatically get access to an electronic copy of the text book.
 - If you purchase *only* the hard copy of the text, *you will not be able to complete the course.* You must purchase Mastering access.
 - **Purchasing instructions will be emailed to all registered students 1-3 weeks before class begins. Please wait to purchase until you receive these instructions.**

Drop Policy:

- **If you don't want to be dropped from the course, start the course on time!** Students who haven't done the following by 5 pm on Wednesday, January 8 will be dropped from the course.:
 - set up their Pearson Mastering account and started the first e-text reading
 - viewed the first lecture
 - posted their introduction
- **Students who wish to drop the course must take all necessary steps to officially drop the course.** Follow the DeAnza drop procedures found [here](#).
- [Links to an external site.](#)

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- Please note, **drop deadlines for 6 week classes are NOT the same as for quarter-long classes!** Up-to-date drop deadlines can be found in MyPortal.

Learning Activities and Expectations for Bio 54:

- Read e-textbook
- View weekly video lectures (1-3 hours of lectures / week)
- Complete online homework (lab) assignments - there may be multiple homework assignments per module.
- Review, study, and learn module content.
- Complete an online module test each week + online final exam
- Plan to spend 5-7 hours / week viewing video lectures, completing homework, studying, and preparing for tests.

Homework Procedures:

- Homework is open-book - you may consult your textbook to work through the questions.
- Homework will be graded within 10 days of submission.
- Homework opens at 8 am on Monday, and is due by 11:59 on Sunday of each week.

Test Procedures:

- Students may open each chapter test and the final exam **only once**
- Chapter tests and the final exam have **time limits**. **Be ready to take the test or exam in one sitting when you open the test / exam, as you will not be able to open the test again if your test is interrupted.**
- Chapter test and Final Exam grades will be available within 10 days after the testing period closes.
- Tests and Final Exam are closed book, closed note.
- There will be **no make-up exams**

Extra Credit:

- Extra Credit is due no later than Tuesday, February 11 at 11:59 pm.

- You can find the Extra Credit assignment in the "Start Here" Module

Late Work:

- Homework, test, final exam, and extra credit deadlines are firm. **Late work will unfortunately result in a grade of zero.** Please plan your time accordingly.

Course Assignments and Point Values:

Assignment	Percent of Final Grade
Chapter Tests (up to 45 questions)	40%
Homework / Online Labs (vary in length)	45%
Cumulative Final Exam (up to 60 questions)	15%
Extra Credit	5%

Testing Schedule

Week	Module	Testing Window
1	Endocrine System	8 am Friday, 1/10 - 11:59 pm Sunday, 1/12
2	Blood System	8 am Friday, 1/17 - 11:59 pm Sunday, 1/19
3	Cardiovascular Part 1	No test this week - plan for combined Week 3 and 4 test
4	Cardiovascular Part 2	8 am Friday, 1/31 - 11:59 pm Sunday, 2/2
5	Lymphatic and Immune	8 am Friday, 2/7 - 11:59 pm Sunday, 2/9

6	Final Exam	8am Wednesday, 2/12 - 11:59 pm Thursday 2/13
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Please note that the course ends (final exam testing window closes) at 11:59 pm on Thursday, February 13, 2025.

Canvas:

De Anza College uses the Canvas learning management system (LMS). Canvas can be accessed through the Foothill-DeAnza Myportal, and can be downloaded to your [iPhone](#)

[Links to an external site.](#)

or [Android](#)

[Links to an external site.](#)

device. *All course materials and office hours will be delivered through Canvas*, so it is critical that you familiarize yourself with Canvas.

Academic Integrity (Don't Cheat!)

[Links to an external site.](#)

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- All homework, tests, and exams must be your own work.
- Use of AI powered tools such as ChatGPT for homework, tests, and exams is prohibited
- Any assignment that does not reflect the student's own work will receive a grade of 0 (zero). The student's name will be forwarded to campus authorities for further review. The instructor retains the right to have the student take an alternate exam or assessment *under direct supervision* (which may be by zoom or may require the student to come to campus in-person, or may require an oral examination), but the instructor also retains the right NOT to offer a repeat assessment in the interest of time.
- Examples of cheating include:

- speaking with other students during an exam or testing period when other students have not yet taken the exam
- receiving help from or giving help to another student during an exam
- sharing any part of an exam with another student, whether verbally, or using digital communication or images (screen shots)

Attendance

There is not on-campus requirement for this online, distance education course. Attendance and participation are monitored via student activity in the learning management system, which is logged by Canvas. The instructor will monitor Canvas activity logs to identify students who are not actively participating in the course. Plan to allocate approximately 5-7 hours each week viewing course materials, reading, completing homework, studying, and completing tests.

The best way to succeed in this course is to make a learning plan and stick to it!

- **Mark out time on your calendar each week for reading, viewing lectures, completing homework and taking tests.**
- **Be sure to work systematically through the tasks as they appear in each module.**

If you have any questions, email me at leejenniferh@fhda.edu.

Grading:

This course follows the DeAnza College grading system--

A	100% to 94.5%
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A-	< 94.5% to 89.5%
B+	<89.5% to 86.5%
B	< 86.5% to 83.5%
B-	< 83.5% to 79.5%
C+	< 79.5% to 74.5%
C	< 74.5% to 69.5%
D+	< 69.5% to 66.5%
D	< 66.5% to 63.5%
D-	< 63.5% to 59.5%
F	< 59.5% to 0%