

Preliminary Syllabus

Bio 54G

Applied Anatomy and Physiology: Levels of Organization

Fall 2024 / 1.5 units

23 September - 31 October 2024

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.

Topics to be discussed in 54G include a basic introduction to human anatomy and physiology, a discussion of body organization, the chemical basis of life, the cell and its metabolism, tissues, and the skin. You'll learn the biological basis for many common diseases that result from homeostatic imbalances. 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
- Pearson Mastering materials (e-text, homework) the day before the term begins

Course Objectives:

- Evaluate and compare the characteristics and requirements of life.
- Analyze and discuss the evolution of scientific thought in understanding physiology.
- Appraise the interdependent relationship between the study of chemistry and the study of all living things.
- Appraise the structure and function of the cell membrane, cytoplasmic organelles, and the nucleus.
- Distinguish between different mechanisms of transport within and between cell membranes.
- Examine the life cycle of a cell.
- Analyze cellular metabolism, including energy metabolism.
- Analyze how DNA carries genetic information and how this information is expressed.
- Compare and contrast the structure and function of human tissues.
- Evaluate and illustrate the layers of the skin and its accessory organs

Student Learning Outcomes:

- Define the characteristics of life and demonstrate an understanding of how homeostatic mechanisms are important to survival.

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 textbook.
 - Your *Mastering* subscription is valid for 18 months, so you will not need to purchase additional materials for the other courses in the BIO 54 series if you complete them within 18 months.
 - If you purchase *only* the hard copy of the text, *you will not be able to complete the course.* You must purchase Mastering access.

Drop Policy:

- **If you don't want to be dropped from the course, start the course on time!** Students who haven't started the first reading assignment and viewed the first lecture by 5 pm on Wednesday, September 25 will be automatically dropped from the course.
- **Students who wish to drop the course must take all necessary steps to officially drop the course.** Follow the DeAnza drop procedures found [here](#).
- Please note, **drop deadlines for 6 week classes are NOT the same as for quarter-long classes!** Updated drop dates can be found on MyPortal.

Learning Activities and Expectations for Bio 54G:

- Read textbook
- View video lectures (1-3 hours of lectures / week)
- Complete online homework (lab) assignments
- Review, study, and learn module content.
- Complete an online module test each week + online final exam
- Complete an online final exam
- Plan to spend 5-7 hours / week reading, 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.
- There is a required "Introductions" discussion that counts toward your homework grade. It is due by 5 pm on Wednesday of the first week of class.

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, October 29 at 11:59 pm.
- You can find the Extra Credit assignment in the "Start Here: Module

Course Assignments and Point Values:

Assignment	Percent of Final Grade
Chapter Tests (30 questions)	40%
Homework / Online Labs (vary in length)	45%
Cumulative Final Exam (60 questions)	15%
Extra Credit	5%

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.

Testing Schedule

Week	Module	Testing Window
1	Intro to Human Body	8 am Friday, 9/27 - 11:59 pm Sunday, 9/29
2	Chemistry	8 am Friday, 10/4 - 11:59 pm Sunday, 10/6
3	Cells	8 am Friday, 10/11 - 11:59 pm Sunday, 10/13
4	Energy, Metabolism, and Tissues	8 am Friday, 10/18 - 11:59 pm Sunday, 10/20
5	Skin & Membranes	8 am Friday, 10/25 - 11:59 pm Sunday, 10/27
6	Final Exam	8am Wednesday, 10/30 - 11:59 pm Thursday 10/31

Please note that the course ends (final exam testing window closes) at 11:59 pm on Thursday, October 31, 2024.

Academic Integrity:

- 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.

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](#) or [Android](#) device. *All course materials and office hours will be delivered through Canvas*, so it is critical that you familiarize yourself with Canvas.

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, studying, 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%
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%