

**SOUTHERN CALIFORNIA UNIVERSITY OF HEALTH SCIENCES**  
**Accelerated Sciences Division**

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**COURSE INFORMATION**

**Course Number (Prefix Code):** BIO221L

**Course Name:** Anatomy and Physiology I laboratory

**Course Description:**

This course is the first in a two-part series covering gross and microscopic structure of human body and basic understanding of physiological mechanisms. The course provides thorough analyses of organization of human body including chemical, cellular and tissue levels of organization; covering support and movement of the body including the integumentary system, bones and skeletal tissue, the human skeleton, joints, muscle tissue and the muscular system; regulation and integration of the body including the endocrine system; and the systems required for body maintenance including digestive system and the principles of nutrition, metabolism, and energy balance . Laboratory includes work with microscope, Anatomage table, human body models, and cadavers.

**Course Delivery Model(s):** Online Interactive, On-Ground

**Time Requirement:**

Lecture Hours per term:	0
Laboratory Hours per term:	30
Total Hours per term:	30
Course Duration (weeks):	5
Credits:	1

**Credit Hour Verification:**

This list represents the average amount of time a student is expected to spend to successfully complete this course.

	<b>Activity Type</b>	<b>Online-Interactive Hrs/wk</b>	<b>On-Ground Hrs/wk</b>
<b>Course Time</b>			
	Discussion forums/Participation	1 hour	1 hour
	Audio/Video recordings	3 hours	3 hours

	Homework (Pre-labs and Reports)	4 hours	4 hours
<b>Preparation and Study</b>	Study (assessment prep)	2 hours	2 hours
<b>Other</b>	Exams (outside of class)	1 hour	1 hour
<b>Total</b>	Total per week	11 hours	11 hours
	Total per block	55 hours	55 hours

**Prerequisites:** None

**Co-requisites:** BIO221 recommended.

**This course may be taken again for credit the following number of times (repeatable):** 5

## **LEARNING OUTCOMES, OBJECTIVES, & ALIGNMENT**

### **Student/Course Learning Outcomes**

In successfully completing this course, students will be able to:

<b>SLO/CLO</b>
1. Understand the necessary life functions and survival needs of humans.
2. Label the human body utilizing anatomical terminology.
3. Differentiate the basic types of human tissues and the components of the Integumentary system.
4. Identify the structure and function of bones, skeletal tissue, axial and appendicular skeleton, and joints.
5. Discuss the structure and function of muscle tissue and the axial and appendicular muscles.
6. Correlate the normal structure of the digestive systems to its functions.

## **TEXTBOOKS & MATERIALS**

**Required Textbook(s):** SCU Lab Manual for Anatomy & Physiology (available on Canvas).

**Required Materials: Lab Notebook:** Students will be required to keep a laboratory notebook, and the instructor will grade notebook entries. The notebook allows students to accurately record experiment procedures and data, so students should write it so that someone else could repeat the experiments and get the same results. Among other things, this includes recording all spectroscopic and analytical data obtained from the experimental procedure. Further information about the lab notebook will be provided in class.

**Additional Required Materials:** Working computer with a strong internet connection, camera, and a microphone. Scientific calculator.

### **Scientific Calculator\*\***

*\*\* Graphics or text-memory calculators are not allowed for use during quizzes or exams. If a student brings one, they will have to take the quiz without a calculator! Students are encouraged to obtain a scientific calculator with exponents and logarithms immediately, rather than the day before a quiz or an exam. It is important to be comfortable with the calculator being used, rather than to be struggling to locate the keys for certain mathematical operations. For example, a TI-30X IIS is acceptable.*

**Required Attire for Labs:** Close-toed shoes, professional attire and lab coats are mandatory during all lab hours. No shorts, heels, or flip-flops will be allowed in the laboratory; hair longer than shoulder-length must be pulled back and held with a clip or hair tie. Gloves, goggles and additional safety equipment will be required for all in-person lab experiments.

**Provided Materials:** Flame resistant Lab Coat/Apron, Nitrile gloves, Safety Goggles. Only approved safety goggles must be worn. Approved safety goggles will be provided by the lab instructor during the first lab session.

## Technology Requirements

**Learning Management System:** Canvas. If a student is unfamiliar with the Canvas learning management system, please visit the manuals and learning guides available in the Canvas Student Guide. It is important that students are comfortable and competent in using this system, as all course material and communication will be done via Canvas.

Navigating Canvas – the Canvas site has a large set of [Canvas tutorials and videos for students](#).

**Browser and Computer Requirements for Canvas:** This course requires that students have access to Google Chrome or Microsoft Edge.

**Examination System:** Proctorio. We will be using the Proctorio Online Exam Proctoring Service in this course. Proctorio is a software extension in Chrome that uses your computer's screen, web cam, and microphone to create a remote proctored environment, and enables students to take exams via Canvas from any remote location. *Students must have a strong and stable internet connection for Proctorio to work well.* During exams, students, the computer, BuffOne Card, and all surrounding environment may be recorded.

For information about Proctorio's privacy policies, please visit OIT's Proctorio Privacy page. In addition to the instructor(s) and Teaching Assistants(s) of this course, Proctorio and SCU Proctorio administrators are the only ones who will have access to the recordings. The Chrome browser extension must be installed before students can take any exam, and it can be removed once an exam is complete.

There will be an initial practice exam for students to become familiar with using Proctorio, which allows students to identify any potential issues prior to using this examination system.

**Suggestions for completing online coursework:** Save work often; this includes backing it up on multiple devices or cloud applications. When submitting final papers on the Canvas learning management system (LMS), ensure that all files have been uploaded properly. Also make sure to keep a hard copy of all papers/projects in case of an unforeseen technological failure or outage.

## EVALUATION OF STUDENT LEARNING

### **Grading scale:**

Letter grade

A = 90% - 100%

B = 80% - 89.99%

C = 70% - 79.99%

D = 60% - 69.99%

F = 0.0% - 59.99%

### **Assessments:**

Assessment Name	#	Total Percentage	SLO Linkage
Exams	2	40%	1-7
Lab Assignments (canvas)	8	30%	1-7
Lab Activity (connect)	20	15%	1-7
Participation	10	15%	1-7

**Course Topics:**

Module	Topic	Assessment Activity	SLO Linkage
1	Orientation/ Anatomical Language	Lab Assignment Lab Activity Participation	1,2
	Diffusion/ Osmosis	Lab Assignment Lab Activity Participation	1,2
2	Tissues and Skin Histology	Lab Assignment Lab Activity Participation	1-3
	Skeletal System Histology and Anatomy	Lab Assignment Lab Activity Participation	1,2,4
3	Muscular System Physiology	Lab Assignment Lab Activity Participation	1,2,5 1-5
	Muscular System Physiology	Lab Assignment Lab Activity Participation	1,2,7
4	Digestive System Anatomy	Lab Assignment Lab Activity Participation	1,2,7
	Digestive System Physiology	Lab Assignment Lab Activity Participation	1-7
5	Endocrine System	Lab Assignment Lab Activity Participation	1,2,7

**UNIVERSITY POLICIES**

All university policies apply to this course and all others. For full policy information please consult the SCU Catalog. Additionally, program policies apply to students in each program as described in the Catalog and in SCU Health Handbook for clinical courses.

**Drop Date:** It is a student's responsibility to understand when to consider unenrolling from a course. Refer to the [SCU Academic Calendar](#) for dates and deadlines for registration. Refer to SCU Academic Policies for [information about the drop period](#).

**Incomplete Policy:** Under emergency/exceptional circumstances, students may petition for an incomplete grade. See the [SCU Catalog for Policies about Incomplete Grades](#)

**Academic Integrity:** Students at this university are expected to maintain the highest degrees of professionalism, a commitment to active learning, and display integrity both in and out of the classroom. See the SCU. [SCU Academic Integrity Code](#).

**Accessibility Services and Accommodations:** The Office of Student Services provides support to students with disabilities requiring accommodation in concert with the lead faculty for this course. All students are encouraged to request accommodation as far in advance of when the accommodation will be required as possible to allow the University to process the request and provide approved accommodation. To begin the process please request a consultation with the designated Accessibility Services Officer as soon as possible. Once the Office of Student Services approves the request, the letter of accommodation will be provided to the student and lead faculty member via email. The student should be certain to follow-up with the lead faculty member to plan for the specific accommodation needs for the course. Program requirements cannot be modified to accommodate a disability. Please see the catalog for details regarding [Accessibility Services and Accommodations](#).

[A complete list of University Services](#) is available through MySCU, including:

- Tech Support information
- Veterans Support Services
- Resources for Title IX support though the Campus Safety tab
- Student Advocacy and Accountability resources

**Learning Resource Center:** Students can use the library's resources which provide students with an excellent collection of books, journals, electronic databases, and websites as well as consult with the librarian to help with the course.

**Online Etiquette:** In general, behavior in an online classroom should emulate the professional behavior expected in an on-ground classroom with a few additional requirements:

- Avoid using text slang and abbreviations such as "u" (instead of "you"), "TLDR" (Too Long, Didn't Read) or "TBH" (To Be Honest) - not everyone knows what they are. Do not use ALL CAPS for entire sentences or posts - this is seen as yelling at someone.
- Any form of personal attack or inappropriate response with other students or faculty is unacceptable. We will remove any discussion posts showing this and warn the author.
- If a student disagrees with someone's comments, they should do so respectfully and collegially and provide legitimate examples to support their side.
- Before pressing the submit button review comments, making sure nothing is coming across as defensive, too "know-it-all" or critical, or academically inappropriate. It is easy for someone to misinterpret the meaning when they cannot see facial expressions or hear the tone of voice.
- Avoid short, generic replies such as "I agree!", "I like it!" or "Funny!" – explain why, add another point in support of the idea, or raise a question to continue constructive dialogue.

**Attendance:** [SCU policy](#) defines attendance for all courses and specifies online courses as active, weekly participation in the course as described in the syllabus. Examples of activities could include, but are not limited to:

- Participating in weekly online chats or discussions
- Submitting or completing assignments
- Commenting on other student contributions
- Actively logged on and participating in class at least three times per week

See the Academic Policies page in the [SCU Catalog](#) for more details on Attendance Policy.

### **Accelerated Sciences Course Recommendations**

- Read before and after each class. Skim the chapter before it is covered in lecture to become comfortable with some of the terms associated with each topic. Review each chapter after it is covered in class to enhance understanding of the material.
- Do not wait until the night before homework is due to start the assignment. Understanding of concepts will be enhanced if the time is taken to learn them beforehand and later review the material without being rushed.
- Stay focused by finding an environment to study with few distractions.
- Participate during class by taking notes and looking over them afterwards.
- Any topics covered in the course could be presented in subsequent examinations, so it is critical to prepare and learn all presented material.
- Remember that procrastination in an accelerated course can quickly prove disastrous! Failure to learn foundational principles can make all future material seem nearly incomprehensible, so make sure to budget time wisely over the next five weeks.

#### **Specifically for synchronous courses:**

- Ask questions for clarification when not understanding the material being covered.
- *Do not skip class, arrive late, or leave early.* Given the accelerated nature of our courses, every minute of class missed can have a real impact on student success in a course.
- Work on assigned problems as close to the time as when the topic is covered in class to increase understanding of specific concepts.
- Find a group of students to study with. This makes studying more fun and helps learning of the material by teaching to and learning from peers. Explaining these concepts to other students aids in mastery of what is covered.

### **Teaching Methods & Instruction**

In classes with scheduled class time, virtual lab will be conducted in real time/live by the instructor. Students must adhere to the attendance policy set out by the instructor for the class. Due to the individualized nature of learning, students should expect to spend as much time as needed based on individual attainment of prerequisite knowledge.

- **Attendance and Participation:** Because experiments are the main point of this class, attendance and participation are mandatory and will be incentivized through grades. For each lab period students will receive points for participation grade. Showing up prepared and on time is one part of this grade, the other is doing the lab work. Students should check with the lab instructor before leaving the laboratory after completing each experiment. *Students are expected to attend all scheduled lab meetings.*
- **Lab Introduction:** A brief lab introduction will be conducted by the class instructor, reviewing the topic of the specific lab session, according to the syllabus.
- **Lab Assignments:** Will be performed in collaboration with other classmates in small groups and in break-out Zoom rooms during the lab sessions.
- **Lab Activities:** Will be performed via McGraw Hill connect with other classmates in small groups and in break-out Zoom rooms during the lab sessions.
- **Lab Quizzes:** Homework assignments to be conducted by the student and submitted on time, according to the specific instructions described on the Canvas course page.
- **Exams:** There are two exams. Please pay attention to the due dates as due dates on final exams will not

be extended. Exams are located on the Canvas platform. Students must use proctoring methods required by the instructor. All exams are proctored via Proctorio.

