SOUTHERN CALIFORNIA UNIVERSITY OF HEALTH SCIENCES
Accelerated Sciences Division

Syllabus Table of Contents

COURSE INFORMATION

Course Number (Prefix Code): BIO261

Course Name: Human Physiology Lecture

Course Description:

This course is designed primarily for health sciences programs including medicine, physician assistant, chiropractic, dental hygiene, pharmacy, nursing, physical therapy, sports and leisure studies, and other medical related fields. It is an in-depth study of human function. Special attention is given to the abnormal as well as the normal functional state of the organ systems including integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems.

Course Delivery Model(s): Online Interactive, Online Self-Paced

Time Requirement:

Lecture Hours per term:	45
Laboratory Hours per term:	0
Total Hours per term:	45
Course Duration (weeks):	5
Credits:	3

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

	Activity Type	Online Interactive Hrs/wk	Online Self-Paced Hrs/wk
Course Time	Lecture time	9	0
Academic Engagement	Video Lectures	0	0.5
	Supplemental Videos	3	3
	Adaptive Reading Assignment	1	4

	Activity Type	Online Interactive Hrs/wk	Online Self-Paced Hrs/wk
	Homework Quiz	3	4
	Discussion Forums	1	1
	Exam (Midterm and Final)	1	1
Preparation and Study	Study time (assessment prep)	5	8
	Reading (chapter readings, materials research)	4	5.5
Total	**Hours per week**	**27**	**27**
	Hours per course	**135**	**135**

Prerequisites: None
Co-requisites: None
Recommended Prerequisites and Co-requisites: BIO261L recommended co-requisite

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, the student will be able to:

SLO/CLO
1. Explain chemical components of the body
2. Describe interactions between cells and the extracellular environment.
3. Explain the mechanism of nerve impulse generation and conduction.
4. Describe the specific divisions and functions of the nervous system.
5. Identify the role of hypothalamus, endocrine systems, and hormones in maintaining homeostasis.
6. Discuss the normal functions of the cardiovascular systems.
7. Discuss the mechanism of muscle activation and contraction.
8. Describe the basic functional features of the major organ system within the human body

TEXTBOOKS & MATERIALS

Required Textbook(s): Human Physiology by Stuart Ira Fox, 16th edition. ISBN-13: 978-1260720464.

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.

Provided Materials:
   Homework and quizzes platform (McGraw-Hill).

Technology Requirements

[Click here to view the SCU technology requirements](#)

External resources: McGraw-Hill

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: 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 you to take exams via Canvas in the location of your choice. You must have a strong and stable internet connection for Proctorio to work well. During the exam, you, your computer, and the environment you are taking the exam in may all be recorded.

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 a practice exam to become familiar with using Proctorio, and surface any issues you may encounter with Proctorio.

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	#	Pts Each	Weight	SLO Linkage
Discussion Board /Participation	5/10	10/5	15%	1-8
Quizzes	5	10	20%	1-8
Reading Assignments (optional)	20	-	0%	1-8
Homework	5	40	25%	1-8
Exams	3	60	40%	1-8
Total			100%	

Course Topics:

Module	Title	Topics	Assessments	SLOs
1	How Cells Work	• Chpt. 1: The Study of Body Function • Chpt. 2: Chemical Composition of the body • Chpt.3: Cell Structure and Genetic Control • Chpt. 4: Enzymes and Energy	Discussion/ Class Part. Module Quiz, Reading assignment (MGH) Homework (MGH)	1,2
2	Enzymes, The Nervous System	• Chpt. 5: Cell Respiration and Metabolism • Chpt. 6: Interactions Between Cells • Chpt. 7: Neurons and Synapses • Chpt. 8: Central Nervous System • Chpt. 9: Autonomic Nervous System	Discussion/ Class Part. Module Quiz, Reading assignment (MGH) Homework (MGH)	1,3,4
Exam I (Chapters 1-6)				1-4
3	The Senses, The Endocrine System, Muscle Control	• Chpt. 10: Sensory Physiology • Chpt. 11: Endocrine Glands • Chpt. 12: Muscle Contraction, Neural Control	Discussion/ Class Part. Module Quiz, Reading assignment (MGH) Homework (MGH)	3,4,5,7
Exam II (Chapters 7-12)				3,4,5,7
4	The Circulatory, Immune, and Digestive Systems	• Chpt. 13: Blood, Heart, and Circulation • Chpt. 14: Cardiac Output, Blood Flow • Chpt. 15: The Immune System • Chpt. 18: The Digestive System	Discussion/ Class Part. Module Quiz, Reading assignment (MGH) Homework (MGH)	6-8
5	Physiology of Respiration, the Kidneys, and the Reproductive System	• Chpt. 16: Respiratory Physiology • Chpt. 17: Physiology of the Kidneys • Chpt 19: Regulation of Metabolism • Chpt. 20: Reproduction Review	Discussion/ Class Part. Module Quiz, Reading assignment (MGH) Homework (MGH)	6-8
Exam III (Chapters 13-20)				6-8

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. Also refer to SCU Academic Policies for information about the drop period.

Incomplete Policy: Under emergency/special 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 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 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, lecture will be delivered in real time/live by the instructor. Students must adhere to the attendance policy set out by the instructor for the class. In asynchronous classes, students will review lecture content on their own time. Due to the individualized nature of learning, students should expect to spend as much time as needed based on individual attainment of prerequisite knowledge.

- **Lecture Outline PowerPoints, Supplemental Videos and Support Materials:** The lecture outline is a series of PowerPoint slides on the most important chapter topics that should be reviewed before beginning the Reading Assignment. These slides will also serve as a good reference when completing homework and reviewing for exams. Supplemental videos and support materials contain additional videos or other items related to some of the most important or interesting topics in the chapter. Some videos show fun applications. These are all optional learning materials.

- **Class Time:** Class time will be spent reviewing the topics as outlined in this document. It is the student's responsibility to use the resources provided to prepare themself prior to class. This includes reading the textbook and viewing other resources.

- **Reading Assignments:** These sections are created on "Connect" through SmartBook. They improve reading productivity and provide students with better knowledge retention. SmartBook is an intelligent eBook that applies the adaptive technology of LearnSmart to ensure a focus on content the student has not yet learned while also promoting long-term retention of already learned material.

- **Supplemental Videos:** the video content helps students gain a deeper understanding of the concepts presented in the learning modules and in the textbook. Often, supplemental videos pages feature animations, videos, or other interactive learning resources.

- **Discussion Board Posts:** Weekly discussion boards are asynchronous, however participation between students is required. Faculty will be active in all discussion boards and work interactively with students to build knowledge. Students must view the lecture material and PowerPoints on Canvas before beginning discussion boards and assignments in each module to be better prepared to participate interactively with peers in the discussion boards to maintain the participation grade.

- **Exams:** There are three exams in each class. There will be questions that are similar to all quizzes, homework, questions at the end of each chapter and any other activity given. The Exams are all on Canvas. Please pay attention to the due dates. They are final and will not be extended. You must use proctoring methods required by the instructor.

Note: Completing assignments open book (book, instructor office hours, tutor, Google, etc.) is different from testing in an exam environment. It is acceptable and encouraged to use all available resources to learn how to complete an assignment; however, the long-term goal should be to pass the exams without any outside aid.