



IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	Fall 2022	Instructor Name:	Setareh Madani
Course Title & #:	Human Physiology/BIOL 206	Email:	setareh.madani@imperial.edu
CRN #:	10539	Webpage (optional):	Canvas page: https://imperial.instructure.com/
Classroom:	2737	Office #:	2779
Class Dates:	8/15/22 – 12/10/22	Office Hours:	MTWR 8:30 am – 9:30 am via zoom
Class Days:	TR	Office Phone #:	760 355 6148
Class Times:	2:40 pm – 3:45 pm & 3:55 pm – 7:05 pm	Emergency Contact:	Department Secretary 760 355 6155
Units:	4	Class Format:	Face to Face

Course Description

Lecture and laboratory course designed to introduce the function of the human body from cellular through organ system levels of organization. Emphasis will be on integration of body systems and interrelationships for maintaining homeostasis. The practical applications of the basic concepts are presented. This course may require the use of human cadavers for observation and/or dissection. (C-ID BIOL 120 B) (CSU) (UC credit limited. See a counselor.)

Course Prerequisite(s)

CHEM 100 and BIOL 204 with grades of "C" or better, OR

Appropriate placement as defined by AB705, OR

MATH 098 or MATH 091, with a grade of "C" or better, and current California LVN/RN license.

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and/or attitudes as demonstrated by being able to:

1. Conduct and interpret the results from a urinalysis and an electroencephalogram/ electromyogram/ electrocardiogram. (ILO 1, 2)
2. Demonstrate understanding about the physiology associated with cells, tissues, organs, or organ systems. (ILO 1, 2)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Describe homeostasis and the mechanisms to maintain homeostasis.
2. Discuss the chemical aspect of the human body.
3. Describe cell structure and function.
4. Discuss control of enzyme activity and bioenergetics.

5. List nervous system divisions and components and describe their basic functions.
6. Discuss the special senses and their nervous control.
7. Discuss the function of the endocrine system and major regulation hormones, especially the hormones of the anterior pituitary.
8. Discuss muscle function and understand the similarities and differences between different muscle types.
9. Discuss the regulation and functions of the cardiovascular system.
10. Describe the mechanism immunity.
11. Describe the functions of the respiratory system and the environmental effects.
12. Describe the kidney function and urine formation.
13. Distinguish between physical and chemical digestion and describe the functions of the digestive tract and accessory digestive organs.
14. Describe the male and female reproductive physiology and the female cyclic changes.
15. Demonstrate knowledge of metabolic and physiological disorders of the major organ systems
16. Demonstrate an understanding of the scientific method, experimental design, and the philosophy of science by applying the scientific method to physiological experiments.

Textbooks & Other Resources or Links

J. G. Betts et al. *Anatomy and Physiology* OpenStax, ISBN: 9781938168130. This is an OER textbook and digital access to this textbook is free: <https://openstax.org/details/books/anatomy-and-physiology>

Sherwood, L. 2016. *Human Physiology: From Cells to Systems*, 9th Ed. Cengage. ISBN: 9781285866932

Course Requirements and Instructional Methods

This is an intensive lecture/lab course. Teaching will be aided with the use of PowerPoint slides based on the materials derived from the textbook and other sources. Videos, simulated labs, and question sets will be used as well. Students will need to register to Achieve learning to complete the assignments. There will also be group discussions as part of the assignments.

EXAMS:

There will be five online equally weighted exams, excluding the final exam, with multiple-choice questions, true or false, or/and essay questions. Each of these exams will be worth 50 points. It will provide you with 250 possible points to take.

Final exam will be **cumulative**, and in two parts, with a total of 100 possible points to take. Part one of the final exam will cover the first half of the course material, with 50 possible points, and part two will cover the second half of the course material, with 50 possible points. You will get study guides for both parts of the final exam to know which areas of each chapter you need to review for the exam.

Weekly assignments, including question sets, labs, discussions, etc. will provide you with 500 possible points to take. You will get detailed instructions on what you need to do as your weekly assignments at the beginning of each week. The instructions will be posted on Canvas as weekly announcements.

- **The instructions will be posted on Canvas as weekly announcements.**

Important Note:

- Each session of the class will provide you with 20 possible points from your weekly assignments. You should be present and actively participate to be able to get the full credit. Your presence and active participation are very important and critical.
- You have one free absence, which will not hurt your grade, but if you have more than one absence, you will lose the class assignment’s credit for that session. So, make sure that you **save your free absence for an emergency situation**. If you do not use your free absence, you will get extra credit for it at the end of the semester.
- **It is your responsibility** to frequently check and read the new announcements on Canvas and read them carefully and thoroughly as they contain important information for you.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

What if you need to borrow technology or access to WIFI?

1. To request a loaner laptop, MYFI device, or other electronic device, please submit your request at <https://imperial.edu/students/student-equity-and-achievement/>

If you have any questions about using parking WIFI, please call Student Affairs at 760- 355-6455.

Course Grading Based on Course Objectives

Final grade will be assigned based on the total points that a student earns in both lecture and laboratory sessions;

5 Equally weighted Cumulative Exams.....	5 x 50 pts	250 pts
Final Exam (cumulative) in two parts	2 x 50 pts	100 pts
30 Weekly assignments, including question sets, simulated labs, etc. ...	20 x 25 pts	500 pts
Total		850pts

A: 90 – 100 %

B: 80 – 89.9 %

C: 70 – 79.9 %

D: 60 – 69.9 %

Course Policies

Attendance:

In an online course, **student participation is equal to attendance**. Active participation throughout the semester is critical to your success, and required as the primary proof of your attendance in the course and for IVC to use federal aid funds.

In compliance with the campus attendance/participation policy posted below, **any student who does not complete the first assignment(s) may be dropped from the course**.

Acceptable indications of attendance are:

- Student submission of an academic assignment
- Student submission of an exam
- Student participation in an instructor-led Zoom conference

- Documented student interaction with class postings, such as an interactive tutorial or computer-assisted instruction via modules
- A posting by the student showing the student's participation in an assignment created by the instructor
- A posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters
- An email from the student or other documentation showing that the student has initiated contact with a faculty member to ask a question about an academic subject studied in the course.

Logging onto Canvas alone is NOT adequate to demonstrate academic attendance by the student.

- A student who fails to attend the first meeting of a class or does not complete the first assignment(s) of an online class may be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Academic honesty:

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the [General Catalog](#) for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test

information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

How do I show academic honesty and integrity in an online “classroom”?

- **KEEP YOUR PASSWORDS CONFIDENTIAL.**
 - You have a unique password to access online software like Canvas. Never allow someone else to log-in to your account.
- **COMPLETE YOUR OWN COURSEWORK.**
 - When you register for an online class and log-in to Canvas, you do so with the understanding that you will produce your own work, take your own exams, and will do so without the assistance of others (unless directed by the instructor).

Examples of Academic Dishonesty that can occur in an online environment:

- Copying from others on a quiz, test, examination, or assignment,
- Allowing someone else to copy your answers on a quiz, test, exam, or assignment,
- Having someone else take an exam or quiz for you,
- Conferring with others during a test or quiz (if the instructor didn’t explicitly say it was a group project, then he/she expects you to do the work without conferring with others),
- Buying or using a term paper or research paper from an internet source or other company or taking any work of another, even with permission, and presenting the work as your own,
- Excessive revising or editing by others that substantially alters your final work,
- Sharing information that allows other students an advantage on an exam (such as telling a peer what to expect on a make-up exam or prepping a student for a test in another section of the same class);
- Taking and using the words, work, or ideas of others and presenting any of these as your own work is plagiarism. This applies to all work generated by another, whether it be oral, written, or artistic work. Plagiarism may be either deliberate or unintentional.

Netiquette:

- Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others’ opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

How am I expected to act in an online “classroom” (especially Zoom)?

Attending a virtual meeting can be a challenge when there are many students on one conference call. Participating in such meetings may count as class attendance, but disruptive behavior may also result in you not being admitted to future meetings. Follow the tips below for best results:

1) Be RESPECTFUL

- a. Your written, verbal, and non-verbal communications should be respectful and focused on the learning topics of the class.
- 2) Find a QUIET LOCATION & SILENCE YOUR PHONE (if zooming)**
 - a. People walking around and pets barking can be a distraction.
- 3) EAT AT A DIFFERENT TIME.**
 - a. Crunching food or chugging drinks is distracting for others.
 - b. Synchronous zoom times are set in advance so reserve meals for outside class meetings.
- 4) ADJUST YOUR LIGHTING SO THAT OTHERS CAN SEE YOU**
 - a. It is hard to see you in dim lighting so find a location with light.
 - b. If your back is to a bright window, you will be what is called “backlit” and not only is it hard on the eyes (glare) but you look like a silhouette.
- 5) POSITION THE CAMERA SO THAT YOUR FACE AND EYES ARE SHOWING**
 - a. If you are using the camera, show your face; it helps others see your non-verbal cues.
 - b. You may be at home, but meeting in pajamas or shirtless is not appropriate so dress suitably. Comb your hair, clean your teeth, fix your clothes, etc. before your meeting time to show self-respect and respect for others.
- 6) Be READY TO LEARN AND PAY ATTENTION**
 - a. Catch up on other emails or other work later.
 - b. If you are Zooming, silence your phone and put it away.
 - c. If you are in a room with a TV – turn it off.
- 7) USE YOUR MUTE BUTTON unless when you want to talk to the class and/or your instructor.**

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Some important dates for full-term classes:

August 15th ... Beginning of Fall Semester classes

August 27th ... Deadline for late registration

August 28th ... Last day to drop and receive a refund without receiving a “W”

November 5th ... Deadline to drop full-term classes

December 9th ... Deadline to submit petition for graduation for degree to be awarded for Fall 2022

Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 August 15 – 19	Introduction and course syllabus Chapter 1: An introduction to physiology. Chemistry of life	Refer to the Announcement Week 1 on Canvas page
Week 2 August 22 – 26	Ch. 2: Cell Physiology Ch. 3: Plasma membrane and membrane potential	Refer to the Announcement Week 2 on Canvas page
Week 3 Aug 29 – Sep 2	Ch. 3: Plasma membrane and membrane potential Ch. 4: Principles of neural and hormonal communication	Refer to the Announcement Week 3 on Canvas page
Week 4 September 6 – 9	Sep 6th, Tuesday: EXAM 1 (Chapters 1, 2, 3, 4) Central Nervous System: Ch. 5	Refer to the Announcement Week 4 on Canvas page
Week 5 Sep 12 – 16	Peripheral Nervous System: Afferent Division; Ch. 6 Peripheral Nervous System: Efferent Division; Ch. 7	Refer to the Announcement Week 5 on Canvas page
Week 6 Sep 19 – 23	Endocrine System: Chapters 18 and 19	Refer to the Announcement Week 6 on Canvas page
Week 7 Sep 26 – 30	Sep 26th, Tuesday: EXAM 2 (Ch. 5 – 7, 18 and 19, and the study guide for the previous chapters) Muscle Physiology: Ch. 8	Refer to the Announcement Week 7 on Canvas page
Week 8 October 3 – 7	Muscle Physiology: Ch. 8 Cardiac Physiology: Ch. 9	Refer to the Announcement Week 8 on Canvas page
Week 9 Oct 10 – 14	Blood Vessels and Blood Pressure: Ch. 10 Blood: Ch. 11	Refer to the Announcement Week 9 on Canvas page
Week 10 Oct 17 – 21	Oct 18th, Tuesday: EXAM 3 (Ch. 8 – 11 and the study guide) Immunity: Ch. 12	Refer to the Announcement Week 10 on Canvas page
Week 11 Oct 24 – 28	Respiratory System; Ch. 13 Urinary System: Ch. 14	Refer to the Announcement Week 11 on Canvas page
Week 12 Oct 31 – Nov 4	Fluid and Acid-Base Balance: Ch. 15 Energy Balance: Ch. 17	Refer to the Announcement Week 12 on Canvas page
Week 13 November 7 – 10	Nov 8th, Tuesday: EXAM 4 (Ch. 12–15, 17 & the study guide) The Digestive System: Ch. 16	Refer to the Announcement Week 13 on Canvas page
Week 14 Nov 14 – 18	The Digestive System: Ch. 16 Reproductive System: Ch. 20	Refer to the Announcement Week 14 on Canvas page
	November 21 – 27: Thanksgiving Recess/ No Classes	
Week 15 Nov 28 – Dec 2	Nov 29th, Tuesday: EXAM 5 (Ch. 16 and 20 & study guide) Q and A, presentations	Refer to the Announcement Week 15 on Canvas page
Week 16 December 5 – 10	Dec 6th, Tuesday: Final Exam part 1 Dec 8th, Thursday: Final Exam part 2	Refer to Canvas page for the chapters and the study guides for the final exam

Changes and revision can be made without prior notice; students will be informed of changes