



Basic Course Information

Semester:	Spring 2026	Instructor Name:	Setareh Madani
Course Title & #:	Human Physiology/Biol 206	Email:	setareh.madani@imperial.edu
CRN #:	20029	Webpage (optional):	Canvas page
Classroom:	2736	Office #:	2779
Class Dates:	Feb 17 – Jun 12, 2026	Office Hours:	M 5 – 5:30 pm Online via Zoom TR 10 – 11:15 am Office W 5 – 6 pm Online via Zoom Also by Appointment
Class Days:	MW	Office Phone #:	760 355 6148
Class Times:	9:35 – 10:40 am 10:50 am – 2:00 pm	Emergency Contact:	Department Secretary 760 355 6155
Units:	4.00	Class Format/Modality:	Face to Face (On Ground)

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 120B) (CSU, UC credit limited. See a counselor.)

Course Prerequisite(s) and/or Corequisite(s)

CHEM 100 and BIOL 204 with grades of "C" or better; or successful completion of Intermediate Algebra or appropriate placement as defined by AB 705 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 aspects 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 textbook is an OER (open educational resource); digital access and downloading it is free. Here is the link to access the book:

<https://openstax.org/details/books/anatomy-and-physiology-2e>

Course Requirements and Instructional Methods

This is an intensive lecture/lab course. Make sure that you attend all the sessions; active participation is necessary to be successful in this course.

Please pay attention that:

- **there are NO Make-Up exams or class/ lab activities. Only one absence/missed work will be excused/no harm to your final grade; more than one absence will start to decrease your final grade.**
- The final grade will be based on the exams (7 exams, including the final exam) and weekly assignments, including labs and online quizzes, question sets, etc.

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.

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:

6 Exams	6 x 40 pts	240 pts
Final Exam (parts 1 and 2)	2 x 50 pts	100 pts
Weekly assignments, including labs, online quizzes, discussions		300 pts
Total		640 pts

A: 90 – 100 %

B: 80 – 89.9 %

C: 70 – 79.9 %

D: 60 – 69.9 %

Academic Honesty (Artificial Intelligence -AI)

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.



Accessibility Statement

Imperial Valley College is committed to providing an accessible learning experience for all students, regardless of course modality. Every effort has been made to ensure that this course complies with all state and federal accessibility regulations, including Section 508 of the Rehabilitation Act, the Americans with Disabilities Act (ADA), and Title 5 of the California Code of Regulations. However, if you encounter any content that is not accessible, please contact your instructor or the area dean for assistance. If you have specific accommodations through **DSPS**, contact them for additional assistance.

We are here to support you and ensure that you have equal access to all course materials.

Course Policies

- A student who fails to attend the first meeting of a class will 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.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.
- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink are prohibited in all labs.** Water bottles with lids/caps are the only exception. Please comply as directed by the instructor.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the [General Catalog](#).
- Children in the classroom: Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.
- 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



IMPERIAL VALLEY COLLEGE

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.

DSPS (Disabled Student Programs and Services)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodation.

Financial Aid

Your Grades Matter! In order to continue to receive financial aid, you must meet the Satisfactory Academic Progress (SAP) requirement. Making SAP means that you are maintaining a 2.0 GPA, you have successfully completed 67% of your coursework, and you will graduate on time. If you do not maintain SAP, you may lose your financial aid. If you have questions, please contact financial aid at finaid@imperial.edu.

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 TO REMEMBER:

February 28th

- Deadline to register for full-term courses

March 1st, Sunday

- Deadline to drop Spring full-term classes without a W and no fees

May 17th, Saturday

- Deadline to drop full-term classes with a W



Anticipated Class Schedule/Calendar

Date or Week	Lecture	Lab
Week 1 Feb 17 – 20	Introduction, Syllabus Ch. 1: An Introduction to Physiology. Chemistry of Life	Lab Safety Q & A
Week 2 Feb 23 – 27	Chemistry of Life. Cell Physiology: Ch. 2	Chemical concepts needed for biology
Week 3 Mar 2 – 6	Cell physiology: Ch. 2 Plasma membrane and membrane potential: Ch. 3	Human cells Discussions
Week 4 Mar 9 – 13	Monday, Mar 9: Exam 1 (Ch. 1, 2, 3) Principles of Neural Communication: Ch. 4	Action potential and how it works
Week 5 Mar 16 – 20	Central Nervous System/CNS: Ch. 5 Peripheral Nervous System/PNS: Afferent Division: Ch. 6	CNS and neurons, Sensory Stimuli
Week 6 Mar 23 – 27	Mon Mar 23: Exam 2 (Ch. 4, 5, 6 & the study guide for Ch. 1 – 3) Peripheral Nervous System/PNS: Efferent Division: Ch. 7	Efferent neurons and motor movements
Week 7 Mar 30 – Apr 3	Endocrine System: Ch. 18 and 19	Glands and hormones Hyposecretion/Hypersecretion
Spring Recess (April 5 – 11)/Campus Closed		
Week 8 Apr 13 – 17	Mon Apr 13: Exam 3 (Ch. 7, 18, 19, and the study guide # 2) Cardiac Physiology: Ch. 9	Electrocardiogram (EKG) Analysis
Week 9 Apr 20 – 24	Blood: Ch. 11 Blood Vessels and Blood Pressure: Ch. 10	Blood typing Blood Pressure Measurement
Week 10 Apr 27 – May 1	Mon Apr 27: Exam 4 (Ch. 9, 10, 11, and the study guide # 3) Muscle Physiology: Ch. 8	Electromyogram (EMG) Analysis
Week 11 May 4 – 8	Immunity: Ch. 12 Respiratory System: Ch. 13	Types of White Blood Cells Spirometry
Week 12 May 11 – 15	Mon, May 11: Exam 5 (Ch. 8, 12, 13, and the study guide # 4) Urinary System: Ch. 14	Urinalysis Interpretation of Values
Week 13 May 18 – 22	Fluid and Acid-Base Balance: Ch. 15 Energy and Temperature Balance: Ch. 17	Value Interpretation/Acid-Base and Energy/Temperature
Week 14 May 26 – 29	Monday, May 25: Holiday/Memorial Day, Campus Closed Wed, May 27: Exam 6 (Ch. 14, 15, 17, and the study guide # 5)	
Week 15 Jun 1 – 5	Digestive System: Ch. 16 Reproductive System: Ch. 20	Metabolism Hormones and Values
Week 16 Jun 8 – 12	Monday, Jun 8: Final Exam, part 1 (Ch. 1 – 10) Wednesday, Jun 10: Final Exam, part 2 (Ch. 11 – 20)	

Subject to change without prior notice