

Basic Course Information

Semester:	Fall 2025	Instructor Name:	Jia Sun
Course Title & #:	Anatomy and Physiology for Health Occupations – BIOL 090	Email:	jia.sun@imperial.edu
CRN #:	10011	Webpage (optional):	N/A
Classroom:	Online	Office #:	2778
Class Dates:	8/11/25 – 10/4/25	Office Hours:	In-person: W 730AM-8AM Via Pronto: MTR 6PM-8PM or by appt.
Class Days:	N/A	Office Phone #:	(760) 355-6521
Class Times:	N/A	Emergency Contact:	jia.sun@imperial.edu
Units:	3	Class Format:	Asynchronous Online

Course Description

Introductory study of the structure and function of the human organism. Class is structured for health occupation students. It is not acceptable for pre-medical, pre-dental, pre-chiropractic, pre-physical therapy or registered nursing students, and it is not open to students who have completed BIOL 200, BIOL 202, BIOL 204, or BIOL 206 with a grade of "C" or better. (Nontransferable, AA/AS degree only)

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. Explain how the major organ systems function. (ILO2, ILO5)
2. Apply his/her knowledge of organ system function to solve problems based on materials and situations not covered directly in class. (ILO1, ILO2, ILO5)
3. Keep up-to-date with the materials that are covered in class. (ILO3, ILO4)

Course Objectives

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

1. Identify the basic organization of the human body from very simple to more complex levels.
2. Describe the basic structure and function of cells, tissues, and membranes.
3. Describe the basic organization, structure and function of each of the body's eleven organ systems.
4. Define the concept of homeostasis and describe some examples of homeostatic mechanisms in the body.
5. Describe the components of nutrition and what constitutes a healthy diet.
6. Describe the basics of human reproduction, development, and heredity.
7. Describe some of the health issues and diseases related to each of the body's organ systems.
8. Discuss changes within the human organism due to the aging process.



Textbooks & Other Resources or Links

J. G. Betts et al. **Anatomy and Physiology** OpenStax, ISBN: 9781938168130

This is an OER textbook, digital access to this textbook is free – do not pay for digital access.

Course Requirements and Instructional Methods

Quizzes:

The course includes eight (8) equally weighted lecture quizzes. While the lecture quizzes may not be fully cumulative; no concept in biology is truly independent, so each might require knowledge of previously covered material.

Discussions:

Discussions are an important component of many online classes. They replicate in-class (face-to-face) discussions, so they can be fertile ground for exploratory learning. They can also be fertile ground for self-assessment. When students are directed to consciously compare their ideas or their participation with other participants in the class, they may be able to adjust their participation (both quantity and quality) to meet the bar set by other students. A total of four (4) discussions will take place online over the course of the semester.

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

Lecture Quizzes	8 x 30pts	240pts
Course Discussions	4 x 20pts	80pts
		320pts

The Following grade cutoffs are guaranteed:

A: > 90%; B: > 80%; C: > 70%; D: > 60%

Course Policies

In an online course, student participation is equal to attendance. Your active participation throughout the course is required both for your success in the class as well as the primary proof of your attendance in the course. In compliance with the campus attendance/participation policy posted below, ***any student that does not complete the required first week's activities can be dropped from the course.*** After the first week, any students that fail to submit discussion posts and complete assignments for two consecutive weeks may be dropped from the course if I am not notified ahead of time.

Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

As this is an online course, please also review the Netiquette guidelines for online interactions in the Course Logistics folder.

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.



•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. 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.

Artificial Intelligence (A.I.) 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.

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.

Anticipated Class Schedule/Calendar

WK	TOPICS
1	Introduction to Anatomy and Physiology (Ch. 1/2)
2	Levels of Organization (Ch. 3/4)
3	Support and Movement (Ch. 5/6/10)
4	Regulation, Integration, and Control I (Ch. 12/13/14/15)
5	Regulation, Integration, and Control II (Ch. 17)/The Immune System (Ch. 21)
6	Fluids, Transport, and Environmental Exchange (Ch. 18/19/20/22)
7	Energy, Metabolism, and Waste (Ch. 23/24/25)
8	Human Life Cycle (Ch. 27/28)

Subject to change without prior notice