

Basic Course Information

Semester	Spring 2017	Instructor Name:	Setareh Madani
Course Title & #	Human Physiology- BIOL206	Email:	setareh.madani@imperial.edu
CRN #	20044	Webpage (optional):	NA
Classroom:	2737: Lecture and Lab	Office #:	2779
Class Dates:	2/13/2017 - 6/09/2017	Office Hours:	TBA
Class Days:	T R	Office Phone #:	760-355-6148
Class Times:	2:00PM-3:05PM 3:15PM- 6:25PM	Emergency Contact:	Department Secretary 760-355-6155
Units:	4		

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. (CSU) (UC credit limited. See a counselor.)

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 analyze an electroencephalogram, electromyogram, or electrocardiogram performed on another person. (ILO 1, 2)
2. Conduct and interpret the results of a urinalysis (ILO 1, 2)
3. 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

Sherwood, L. 2016. *Human Physiology: From Cells to Systems*, 9th Ed. Brooks/Cole Cengage Learning. Belmont, CA
ISBN: 978-1-285-86693-2

Course Requirements and Instructional Methods

This is an intensive lecture/lab course. Teaching will be aided with the use of PowerPoint, based on the materials derived from the textbook. Models, charts, diagrams and computer software will be used during lab hours. Students will be asked to answer questions relative to materials covered in each chapter. Students will be assessed using class activities, lab assignments, and exams. Missed lectures/labs will not receive any point.

Exams:

1. The course includes four (4) equally-weighted exams that cover both lecture and lab materials.
2. There are no make-up exams or lab classes.
3. While the exams may not be fully cumulative; no concept in biology is truly independent, so each might require knowledge of previously covered material.
4. The four exams make up 80% of the final grade.
5. The remaining 20% will be based on class attendance, active participation in discussions and questions/answers, lab works, and being on time.

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.

DATES TO REMEMBER:

* **FEBRUARY 25: LAST DAY TO DROP THE COURSE WITHOUT OWING FEES AND/OR TO BE ELIGIBLE FOR REFUND.**

* **MAY 12: LAST DAY TO DROP THE COURSE WITH A "W".**

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;

Exams	4 x 20pts	80pts
Lab works and class active participation	20pts	20pts
Total		100pts

A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: Below 60%

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online 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.
- 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.

Classroom Etiquette

- 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 classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. 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](#).
- Add/Drop: it is the student's responsibility to take the necessary steps to add and/or drop the class by the college deadlines.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

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.

Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- **Canvas Support Site.** The Canvas Support Site provides a variety of support channels available to students 24 hours per day.
- **Learning Services.** There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **Library Services.** There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

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 accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **Student Health Center.** A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provides basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6128 in Room 1536 for more information.

- [Mental Health Counseling Services](#). Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar *****Tentative, subject to change without prior notice*****

Wk and Date	Lecture	Laboratory
Week 1 Feb 14, Feb 16	Introduction to physiology; Ch. 1 Cell Physiology; Ch. 2	Lecture cont. Q & A
Week 2 Feb 21, Feb 23	Cell Physiology; Ch. 2, Intro to plasma membrane; Ch. 3 Plasma membrane & Membrane Potential; Ch. 3	Interactive Physiology (IP)
Week 3 Feb 28, Mar 2	Principles of neural and hormonal communication; Ch. 4	Review
Week 4 Mar 7, Mar 9	EXAM 1 Central Nervous System; Ch. 5	IP
Week 5 Mar 14, Mar 16	Peripheral Nervous System: Afferent Division; Ch. 6 Peripheral Nervous System: Efferent Division; Ch. 7	Sensory Stimuli IP
Week 6 Mar 21, Mar 23	Muscle Physiology; Ch. 8	IP Review
Week 7 Mar 28, Mar 30	EXAM 2 Cardiac Physiology; Ch. 9	IP BIOPAC (ECG)
Week 8 Apr 4, Apr 6	Cardiac Physiology; Ch. 9 Blood Vessels and Blood Pressure; Ch. 10	Stethoscopes and Sphygmomanometers
Week 9 Apr 11, Apr 13	Blood; Ch. 11 Intro to Immunity; Ch. 12	IP
APR 17-APR 22	SPRING BREAK - CAMPUS CLOSED	
Week 10 Apr 25, Apr 27	Immunity; Ch. 12 Respiratory System; Ch. 13	Blood Typing IP
Week 11 May 2, May 4	Respiratory System; Ch. 13	IP Review
Week 12 May 9, May 11	EXAM 3 Urinary System; Ch. 14	IP
Week 13 May 16, May 18	Fluid and Acid-Base Balance; Ch. 15 Digestive System; Ch. 16	Urinalysis IP
Week 14 May 23, May 25	Endocrine System; Ch. 18 & 19	IP
Week 15 May 30, Jun 1	Reproductive System; Ch. 20	IP
Week 16 Jun 6- Jun 8	Review; Q&A EXAM 4	

***** Changes can be made in the course syllabus; students will be informed of any substantial changes.**