

Basic Course Information

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| Semester: | Fall 2018 | Instructor Name: | Setareh Madani |
| Course Title & #: | Human Physiology - BIOL206 | Email: | Setareh.madani@imperial.edu |
| CRN #: | 11169 | Webpage (optional): | N/A |
| Classroom: | 2737 (lecture and lab) | Office #: | 2779 - 1 |
| Class Dates: | 8/13/2018 - 12/08/2018 | Office Hours: | MW 12:50- 1:40 PM R 5:30- 6 PM Fridays online 8:30 -10:30 AM via email or by appointment |
| Class Days: | T R | Office Phone #: | 760 355 6148 |
| Class Times: | 8:30 AM - 9:35 AM 9:40 AM -12:45 PM | Emergency Contact: | Department Secretary (760)355-6155 |
| Units: | 4 | | |

Course Description

Lecture and laboratory course designed to introduce the fundamental principles of the human body structure from cellular through organ system levels of organization, including the cat and organ dissection, study of the human skeleton, structural-functional relationships, and appreciation of related human diseases and aging. This course may require the use of human cadavers for observation and/or dissection. (CSU) (UC credit limited. See a counselor.)

Course Prerequisites

MATH 091 or MATH 090 and CHEM 100 and BIOL 204 with a grade of "C" or better; or MATH 091 or MATH 090 with a grade of "C" or better and Current California LVN or 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: Conduct and analyze an electroencephalogram, electromyogram, or electrocardiogram performed on another person. (ILO 1,2), Conduct and interpret the results of urinalysis (ILO 1,2), 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

Sherwood, Lauralee. *Human Physiology: From Cells to Systems*. Cengage. 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 and other sources. Students will be asked to answer questions relative to materials covered in each chapter. Models, charts, and computer software will be used during lab hours. Question sets and other lab assignments will be collected at the end of each session, and points will be given to each completed work. **Missed sessions and late works will not receive any points.**

Exams:

1. **There are NO Make-Up exams or class/ lab activities.**
2. Exams cover both lecture and lab materials.
3. The final grade will be based on the exams, on-time class attendance, complete and active participation in class activities including discussions, questions and answers, lab works and assignments, and presentations.

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:

- **Aug 26:** Deadline to drop without course appearing on transcript (without W)
- **Nov 3:** Deadline to drop full-term classes (with a W)
- **Nov 21-24:** Thanksgiving Holidays, Campus Closed

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;

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| 4 Equally-Weighted Exams | 4 x 50 pts | 200 pts |
| Final Exam | 1 x 100 pts | 100 pts |
| Class/lab on-time participation, activities, assignments | (3 x 20) + (20 x 7) pts | 200 pts |
| Total | | 500pts |

A: 90 – 100 % (450 – 500)

C: 70 – 79.9 % (350 – 399.5)

B: 80 – 89.9 % (400 – 449.5)

D: 60 – 69.9 % (300 – 349.5)

Attendance

- 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.
- 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](#).
- Children in the classroom: Due to college rules and state laws, only students 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 LMS.** Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: [Canvas Student Login](#). The [Canvas Student Guides Site](#) provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- **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 provide 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 counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information.

Veteran's Center

The mission of the [IVC Military and Veteran Success Center](#) is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying low-income students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population.

Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355- 6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-355-5713, alexis.ayala@imperial.edu.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student

Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.

- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

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

| Week & Date | Lecture | Laboratory |
|---------------------------|--|--|
| Week 1 Aug 14, Aug 16 | Syllabus, Introduction, Ch. 1 Cell physiology: Ch. 2, part 1 | Safety, Introduction Q & A/ Q Set |
| Week 2 Aug 21, Aug 23 | Cell physiology: Ch. 2, part 2 Plasma membrane and membrane potential: Ch. 3 | Q & A/ Q Set, Discussions |
| Week 3 Aug 28, Mar 30 | Plasma membrane and membrane potential: Ch. 3 Principles of neural and hormonal communication: Ch. 4 | Discussions, Q Sets |
| Week 4 Sep 4, Sep 6 | Principles of neural and hormonal communication: Ch. 4 Central Nervous System: Ch. 5, part 1 | Discussions, Q set Study Guide |
| Week 5 Sep 11, Sep 13 | EXAM 1 (Tue, Sep 11): Chapters 1, 2, 3, 4 Central Nervous System; Ch. 5, part 2 | IP (Interactive Physiology) |
| Week 6 Sep 18, Sep 20 | Peripheral Nervous System: Afferent Division; Ch. 6 Peripheral Nervous System: Efferent Division; Ch. 7 | Discussions, Q Sets Sensory Stimuli, Review |
| Week 7 Sep 25, Sep 27 | EXAM 2 (Tue, Sep 25): Ch. 5, 6,7 and previous chapters Endocrine System: Ch. 18 | Discussions, Q Sets |
| Week 8 Oct 2, Oct 4 | Endocrine System: Ch. 19 Muscle Physiology: Ch. 8, part 1 | IP, Q Sets Discussions, Q set |
| Week 9 Oct 9, Oct 11 | Muscle Physiology: Ch. 8, part 2 Cardiac Physiology: Ch. 9 | IP, Q Set, Review ECG |
| Week 10 Oct 16, Oct 18 | EXAM 3 (Tue, Oct 16): Ch. 18, 19, 8 and previous ... Blood Vessels and Blood Pressure: Ch. 10 | Sphygmomanometers and Stethoscopes, IP, Q Set |
| Week 11 Oct 23, Oct 25 | Blood: Ch. 11, Immunity: Ch. 12 | IP, Blood Typing, Q Set Review |
| Week 12 Oct 30, Nov 1 | EXAM 4 (Tue, Oct 30): Ch. 9, 10, 11, 12 and ... Urinary System: Ch. 14 | IP, Q Sets, Urinalysis |
| Week 13 Nov 6, Nov 8 | Fluid and Acid-Base Balance: Ch. 15 Respiratory System; Ch. 13 | Discussions, Q sets, IP |
| Week 14 Nov 13, Nov 15 | Digestive System: Ch. 16, Energy Balance: Ch. 17 | IP Q sets |
| | THANKSGIVING RECESS: NOVEMBER 19-24 | |
| Week 15 Nov 27, Nov 29 | Reproductive System; Ch. 20 Presentations, Final Study Guide, Review | Q Sets |
| Week 16 Dec 4, Dec 6 | Dec 4: Presentations, Review, Q & A Dec 6: Final EXAM: CUMULATIVE | |

*****Tentative, subject to change without prior notice*****