

BIPN 100, Human Physiology I

Section ID: , Spring Quarter 2018

INSTRUCTOR: Dr. Ulka Vijapurkar (uvijapurkar@ucsd.edu)

INSTRUCTIONAL ASSISTANTS (IAs):

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LECTURES: Tuesday & Thursday, 5:00-6.20 PM, LEDDN AUD

COURSE CONTENT: This course will include an in-depth presentation of current knowledge in human physiology, at the molecular, cellular, and systems levels. BILD2, serves as a prerequisite for this course.

TEXT: Textbook: Human Physiology by Silverthorn, 7th edition (older versions are okay)
Syllabus Note & TritonEd Suggested Note to Students: Your required textbook is provided by the UC San Diego Bookstore in a digital format through TritonEd and is free for the first two weeks of classes. After two weeks, your student account will be charged a special reduced price unless you opt-out of the content. To opt out click the RedShelf link inside TritonEd and follow the opt out prompt, you must opt out by 4/14/18.

COURSE WEB SITE: There is a Triton Education site (TED) for the course
<<http://ted.ucsd.edu>>.

Announcements, updates, postings, lecture notes, class discussion forums, and exam grades will all be communicated using the courses Triton Education site (TED).

ELECTRONIC COMMUNICATION.

Preferred: You can ask questions on course material by posting a message on TED. If you have questions, please use the message board so that the answers will be available to others in the class.

Alternative (timely response not guaranteed): Please use my e-mail address (uvijapurkar@ucsd.edu) only for matters that **require** an instructor's personal attention and **be sure to include <BIPN100> in the subject line.**

OFFICE HOURS.

Dr. Vijapurkar: Tuesday & Thursday (4.15 – 4.50), **H&SS 1145B**
IA's office hours: announced by the end of the first week of class.

PODCASTS OF LECTURES: Lectures will be podcast as long as students are using this resource. To reach the Podcasts use your Web browser to go to <podcast.ucsd.edu>. You can listen to each lecture from that site or download it. These are audio files; no figures or video files are included.

LECTURE SLIDES/PROBLEM SETS: Lecture slides will be posted on TED before each lecture. It would be useful to bring a copy to class to take notes.

Problem sets will be posted on TED, but they will not count toward your grade. You do not need to hand in the problem sets. The questions serve to help you assess whether you understand major topics that will be covered on an upcoming exam and provide you with an assessment of where you should concentrate future study efforts. Problem sets will be discussed at sections. Please note that problem sets will be similar to but not necessarily in the same format as exam questions.

SECTIONS: Please check the Summer Quarter Schedule of Classes for times and locations. **Attendance at section is optional, but highly recommended.** Regular attendance (50% or >) at, and active participation in a section will get credit and points (max of 10 points) toward the final grade (~5% of final grade). For these purposes, participation is defined as active participation in discussions, not just attendance. Your attendance and participation will be monitored by a sign-up sheet, please be sure to sign in when you have attended section. The sections are designed to provide a forum for you to ask questions about the course material and receive additional instruction.

EXAMS:

1. SCHEDULE

EXAM#1	Tuesday May 1	5.00 – 6.00 PM	LEDDN AUD
EXAM#2	Tuesday May 29	5.00 – 6.00 PM	LEDDN AUD
FINAL	Thursday June 14	7.00 – 10.00 PM	TBA

2. MAKE-UP EXAMS: You are expected to take the exams when they are scheduled. To be fair to your fellow students, make-up exams can be arranged *only* in the following three circumstances:

A. You are too ill to take the exam. In order to take a make-up exam you must email Dr. Vijapurkar and let her know that you are ill as soon as it is possible to do so (before the exam, if it is at all possible), *and you MUST bring verification written by a physician that you were too ill to take the exam when it was scheduled.*

B. You have an extremely pressing need to be out of town at the time when the exam is scheduled (not the day before or the day after) or you are taking an exam for a course for

academic credit toward graduation that conflicts with the exam AND you have arranged the make-up exam at least one week in advance. You cannot arrange a make-up exam after the fact. It will help in making these arrangements if you bring written confirmation of your need to miss the regularly scheduled exam when you ask to schedule a make-up exam. In any case, you will also need to bring the corroborating documents to the make-up exam.

Your last chance to schedule a make-up exam for the circumstances that are listed in B is by talking to Dr. Vijapurkar after the class that is held one week before the day of the exam. If you fail to talk with the instructor before or at that time, you must take the exam as scheduled (unless you are too sick to do it--see part A above).

PLEASE NOTE: Having another exam scheduled on or near the day of our exams is not a reason to take a make-up exam.

3. GETTING BACK GRADED EXAMS: Each quiz will be returned during regular class approx. a week after. The final exam can be picked up at the Exam Depot in Pacific Hall. Please bring your picture ID Grading usually takes approximately one week.

4. GRADES: Your grade for this course will be *largely* based on your performance in two Midterm exams and a final exam. Each exam will be worth 45 points and will consist of multiple choice and short-answer questions. The final will be worth 100 points and will be composed of multiple choice and will cover cumulative material from the entire quarter. **Because we can only grade the words and/or figures on your exam, make sure to write clear and precise answers.**

The final course grade will be determined either by using a standard curve or a straight grading scale depending on which yields the highest number of A's. In the second case the top five scores will be averaged, and that average will be considered "100%." An A will be 90% and above, a B 80%-89%, a C 70%-79%, and a D 60%-69%. Plus or minus signs will be added for grades within 2% of cutoff between letter grades. In addition, I will also calculate the mean and standard deviation. An A will be assigned for scores that are greater than one standard deviation above the mean, a B for scores that are above the mean, a C for scores that are below the mean, a D for scores that are more than one standard deviation below the mean, and an F for scores that are more than two standard deviations below the mean. If scores have a normal distribution, grading on a curve implies that 16 % will receive A's, 34 % B's, 34 % C's, and 16 % below C. The exact distribution between grades can vary depending on the distribution of the scores. Again, The final course grade will be determined either by using a standard curve or a straight grading scale depending on which yields the highest number of A's for the entire class.

5. REGRADES: If you have objections to the grading of a question on **your** exam, you can e-mail a written argument to the instructional assistant who graded the question. **The e-mail has to be received within 3 days after you receive the exam. You then have to meet with the IA during her/his next office hour.** If you and the IA do not agree, you can have the IA forward your petition and exam to the instructor. Note that a regrade by the instructor may result in a gain

or loss of points; regrading may not be limited to the question you petitioned about. Answers in pencil cannot be considered for regrading. If you are found altering your answer to an exam question and resubmitting that question for a regrade, you will be given a zero on the entire exam and reported for academic dishonesty. Note that false statements that are sent by e-mail are equal grounds for academic dishonesty as those that are stated in person.

6. ADDITIONAL SUPPORT: The office of Academic Support and Instructional Services gives students access to counselors who can help them develop reading and writing strategies, design better time management systems, write more effective class notes, and organize writing assignments. Contact OASIS (<http://oasis.ucsd.edu/>).

7. ACADEMIC DISHONESTY: All suspicions of academic misconduct will be reported to the Academic Integrity Office according to university policy. Academic misconduct is not just blatant cheating (e.g., copying off another student during an exam), but what you might have thought of as "minor cheating" in high school, for example: copying other students' papers or homework; copying or using old papers/report; working with others on individual assignments; forgetting to cite material you took from an outside resource; turning in work completed in total or part by another; writing e-mail that includes fabricated statements. The Policy on Integrity of Scholarship (academicintegrity.ucsd.edu) and this syllabus list some of the standards by which you are expected to complete your academic work, but your good ethical judgment (or asking for advice) is also expected as we cannot list every behavior that is unethical or not in the spirit of academic integrity.

Those students found to have committed academic misconduct will face administrative sanctions imposed by their college Dean of Student Affairs and academic sanctions imposed by the instructor. The standard administrative sanctions include: the creation of a disciplinary record (which will be checked by graduate and professional schools); disciplinary probation; and attendance at an Academic Integrity Seminar (at a cost of \$75). Students can also face suspension and dismissal from the University; those sanctions are not at my discretion. Academic sanctions can range from an F on the exam to an F in the class. The appropriate sanctions are determined by the egregiousness of the Policy violation. Students who assist in or are complicit with cheating could also be in violation of the Policy. Thus, students who become aware of their peers either facilitating academic misconduct or committing it should report their suspicions to an instructor for investigation.

Any student caught cheating on an exam will receive a zero for that exam.

See <http://weber.ucsd.edu/~dkjordan/resources/cheat.html> for additional information.

INSTRUCTIONS FOR TAKING EXAMS

The exams in this course are closed book, closed notes, and electronics-free. That is, you must use only what is in your brain to answer questions. Using anything else (e.g, electronic devices or someone else's exam) constitutes a breach of academic integrity and will be treated accordingly. We will enforce all of the following conditions. You can minimize the time it takes to get set up for an exam--and thus maximize the time you have available to complete the exam--by learning the rules and following them without being reminded.

- 1. Students will sit every-other-seat. Your IAs will tell you the seating arrangement in your room.**
- 2. All electronic devices must be turned off and stored in a bag/backpack that is placed under your desk. This rule applies to cell phones, MP3 players (iPods), calculators, notebooks, earphones--all electronic devices except digital watches. Setting your cell phone to "vibrate" isn't turning it off, and putting devices into your pockets isn't putting them under your desk. If we can see or hear an electronic device, we will confiscate it.**
- 3. All of your belongings--except what you will write with--must be placed UNDER the seat that YOU are sitting in. Please don't put anything on the desk next to you, on the floor in front of you, or anywhere else except under your desk where you can't see them and we can't trip over them.**
- 4. You can have one clear plastic bottle of water or anything you may need because of medical reasons (doctor's notice is required). You cannot have large pencil boxes filled with lots of things or any snacks. Hats can either be removed or turned with the bill to the back of your head. Once the exam begins, you can't touch your hat, wherever it is. Hooded sweatshirts or jackets must be worn with the hood down, not on your head or covering your face.**
- 5. You can write either with a pen or with a pencil. Please use whatever allows you to write legible answers. If the person grading your answer can't read it, you will not be given credit, so keeping your exam neat and legible is definitely in your best interest. IF YOU USE PENCIL, WE CANNOT CONSIDER REGRADE REQUESTS.**
- 6. BRING YOUR UCSD ID CARD TO EVERY EXAM. You will have to show it when you turn in your exam.**
- 8. Put your name and ID number on EVERY page. We take the exams apart, and if pages are unlabeled, we won't know whose they are. Be sure you turn in your exam as you leave the exam room. Don't take any exam materials with you when you leave. You may be asked to leave through a particular door.**
- 9. Depending on circumstances, we may or may not be able to allow restroom breaks. Arrive early at the exam room to learn how this issue will be handled in your room.**
- 10. Anything that is written on the back of exam pages will not be graded. You can use the backs of pages as scratch paper. If you need to write something on the back of a page and you want us to grade it, you must get explicit permission from an instructor BEFORE you begin writing on the back of the page.**

TENTATIVE LECTURE SCHEDULE (subject to modifications as needed except exams)

Date	Topic
April 3rd - Tuesday	Introduction and Membrane Transport
April 5th - Thursday	Membrane Potential
April 10th - Tuesday	Action Potential
April 12th - Thursday	Synaptic Transmission
April 17th - Tuesday	Central Nervous System
April 19th - Thursday	Peripheral Nervous System - Efferent division
April 24th - Tuesday	Peripheral Nervous System - Afferent division
April 26th - Thursday	Review/Discussion session
May 1st - Tuesday	Midterm Exam#1
May 3rd - Thursday	Muscle Physiology
May 8th - Tuesday	Endocrine Physiology I
May 10th - Thursday	Endocrine Physiology II
May 15th - Tuesday	Cardiovascular Physiology I
May 17th - Thursday	Cardiovascular Physiology II
May 22nd - Tuesday	Cardiovascular Physiology III
May 24th - Thursday	Review/Discussion session
May 29th - Tuesday	Midterm Exam#2
May 31st - Thursday	Renal Physiology I
June 5th - Tuesday	Renal Physiology II
June 7th - Thursday	Review/Discussion session

Teaching Team, Sections and Office Hours (office hours are tentative & subject to change)

Who	What	Where	When
Paul Zhou	Section - A05*	CENTR 201	Fri 2-2.50PM
	Section - A06*	CENTR 201	Fri 3-3.50PM
	Office hours	PC theater	Tue 1-2PM
Christopher Luong	Section - A03	MANDE B-104	Mon 12-1.50PM
	Office hours	PC theater	Mon 1-2PM
Joseph Miller	Section - A01	WLH 2115	Mon 8-8.50AM
	Office hours	Starbucks	Mon 9-10AM
Ariel Codilla	Section - A02	WLH 2115	Mon 10-10.50AM
	Office hours	PC theater	Wed 4-5PM
Katherine Ngo	Section - A04	MANDE B-104	Mon 3-3.50PM
	Office hours	York	Mon 4-5PM

* For the first two Friday's (April 6th and 13th)

Section A05 will be run by Christopher Luong and Section A06 will be run by Joseph Miller