

COURSE SYLLABUS**Instructor:** Catalina Reyes, MSc., Ph.D**E-mail:** creyesgonzalez@ucsd.edu**OFFICE HOURS:** Wednesday 9-10 AMZoom <https://ucsd.zoom.us/j/94692563069>**Instructional Assistants office hours:** The office hour schedule for IAs is posted on CANVAS.**ELECTRONIC COMMUNICATION:****IMPORTANT:** Please contact your Instructional Assistant (IA) for **general inquiries**. Make sure to include **BIPN 102** in the subject line. Due to the large number of students in the class we will **not** be able to answer individual questions about the content of the lectures by email. To get your questions answered please attend Catalina's office hours, IAs office hours or discussion sections or post your questions on the discussion board on Canvas.

For information on how to learn remotely you can access the following website

<https://digitallearning.ucsd.edu/learners/learning-remote.html>**CANVAS SITE:** coursefinder.ucsd.edu

Recorded lectures, lecture slides, Announcements, quizzes, and grades will be posted here.

LECTURES: Lectures will be given synchronously and will be recorded on MWF at 8 am (Zoom <https://ucsd.zoom.us/j/94692563069>)All lectures will be **RECORDED** and posted in the Media Gallery folder on CANVAS. PDFs of the lecture slides are available in the Lectures module on CANVAS. You can also access the lectures posted in the UCSD Google drive folder using the link below. You will need to use your UCSD email address to access it.https://drive.google.com/drive/folders/1_y_bmsVnC3ooA0s-DS5g2oc2HZf4E9rw?usp=sharing**DISCUSSION SECTIONS:** Discussion sections will take place at the scheduled times. You can attend **ANY** discussion section for that week. Attendance will not be taken.

Section A01 – Monday	10:00-10:50 AM	Bradley Anderson	banderso@ucsd.edu
Section A02 – Monday	11:00-11:50 PM	Bradley Anderson	banderso@ucsd.edu
Section A03 – Tuesday	11:00-11:50 AM	Jenny Lin	jel315@ucsd.edu
Section A04 – Tuesday	3:00-3:50 PM	Anvitha Soordelu	ansoorde@ucsd.edu
Section A05 – Tuesday	6:00-6:50 PM	Jenny Lin	jel315@ucsd.edu
Section A06 – Monday	2:00-2:50 AM	Yudi Hu	yuh232@ucsd.edu
Section A07 – Tuesday	4:00-4:50 AM	Yudi Hu	yuh232@ucsd.edu

PROBLEM SETS

Problem sets will be posted on Canvas weekly. These questions are intended to give you an idea of the types of questions that may be on a quiz. Problem sets will be covered during discussion sections and the answers will be posted before the biweekly quiz. Problem sets are for practice and you do not need to hand them in. The weeks where no problem set is assigned, you will be provided a scientific paper to read and discuss with your IAs.

DISCUSSION SECTIONS

Discussion sections will take place at the scheduled times using Zoom. Sections are **NOT** mandatory; but highly recommended. **You can attend any of the discussion sections** (notice the schedule for the sections posted on the first page of the syllabus and on CANVAS), but please notify the IA.

OPTIONAL TEXTBOOK: Human Physiology, 8th edition by Dee Silverthorne. The 7th, 6th and 5th editions are fine.

IMPORTANT – the textbook is **NOT** mandatory. However, a digital inclusive version of the textbook will be provided by the UC San Diego Bookstore through the RedShelf tool on CANVAS. If you took BIPN 100 and **opted into** this title, you already have access (check your bookshelf at Redshelf). If you did not take BIPN 100 and/or opted out, AND you need access, click the Redshelf link in Canvas to opt-in. If you decide to keep access after the **first two weeks**, your student account will be charged \$42.35. If you decide you do NOT want to keep the access, **opt-out by 01/16/21** and your account will not be charged. If you have any questions concerning Inclusive Access, please contact the Bookstore at textbooks@ucsd.edu or email help@redshelf.com

Objectives for the course

1. Learn how different systems in the human body work together to maintain homeostasis
2. Learn the anatomy of the systems discussed in class
3. Learn anatomical, physiological, and biomedical terms
4. Learn how to read graphs and images
5. Ability to apply the knowledge acquired to solve physiological and medical problems

To succeed in this course, you must do the following:

1. Work hard. Go over the material every week.
2. Learn the terminology and concepts. There are two components important when learning physiology: memory and understanding. You will have to memorize anatomical and physiological terms, but to succeed you must **understand** the concepts and physiological processes and learn to **critically think** about physiology.
3. Read through the power point presentations before attending or watching the recorded lectures.
4. Take notes while listening to the lectures
5. Attend at least ONE Zoom discussion section per week.

READINGS

There are recommended readings from the text for each topic. The text is **not required**, and the tests will only include the material seen in class. During the quarter journal articles may be posted as class exercises.

TESTS AND GRADING:

5 Quizzes
Final Exam

All quizzes and Final Exam will weight the **same** percentage of your total grade (20%).

There are **NO** make-up quizzes. The lowest quiz grade will be dropped. If you miss a quiz due to a family or medical emergency or technical issues that will be the grade you drop. However, you **MUST** take the quiz during finals week.

The final grade will follow the table below. This grade break down is not negotiable. The final grade may be curved.

Letter Grade	Percent grade
A+	98-100
A	92-97
A-	90-91
B+	88-89
B	82-87
B-	80-81
C+	78-79
C	72-77
C-	70-71
D	60-69
F	<60

Quizzes and the final exam will be delivered through CANVAS. Each quiz will be based on material for that section of the course up to the lecture preceding the quiz. The final exam will be cumulative.

- Friday - January 15 8:00 am
- Friday – January 29 8:00 am
- Friday – February 12 8:00 am
- Friday – February 26 8:00 am
- Friday – March 12 8:00 am
- **Finals week – Cumulative Quiz – Monday, March 15 – 8:00 am**

To complete the quizzes on Canvas you will need to use Google Chrome, as some of the images do not show in other browsers. Instructor and IAs will be available on Zoom to clarify any

questions. Use the same Zoom provided for the lectures (<https://ucsd.zoom.us/j/94692563069>) or you can join through the Course calendar on Canvas.

REGRADES

Occasionally errors, omissions or ambiguities occur in a quiz question. If you have a specific issue with a quiz question, please email Catalina within 24 hours of completing the quiz. This will result in either **nothing** or the question being **removed** from the quiz for the whole class.

If you have a specific concern about how an answer to a quiz question was evaluated email your argument to the IA who graded the question, include BIPN 102 in the subject. You must do this within **one week** of the quiz being graded and available for viewing. Late regrades **WILL NOT** be accepted.

Cheating Any student caught cheating will receive an F in the course and will be reported to the Academic Integrity office. For information on academic integrity at UCSD visit the following website <http://senate.ucsd.edu/manual/appendices/app2.htm>

All quizzes are **Closed Book**. Time should not be an issue if the quizzes are taken under the proper conditions. Please refrain from accessing lecture notes, other websites, or resources. That is considered cheating and will be penalized. We can monitor time spent in each question and time not spent on the Canvas page per question for each student. So, please be mindful of not using other resources when taking the quizzes, as you will not be able to complete them. We understand that when using Zoom to ask the IAs or instructor questions you will be away from the canvas page, but this should not take as long.

IMPORTANT - Please **refrain** from discussing or posting any information regarding the quizzes until the next day, as students overseas will take the quiz at a different time.

Students suspected of academic integrity violations on quizzes will be asked to join a Zoom meeting and will be asked to justify their answers. If the instructor and an IA are not convinced during the meeting, or the student refuses to participate, the incident will be reported to the Academic Integrity Office.

IMPORTANT – Please do not post any class lectures, documents, problem sets or quiz questions on public websites. These materials are my intellectual property, and you must not make them public without my authorization.

TENTATIVE SCHEDULE		
Date	Topic	Silverthorne 8th ed
Week 1 Jan 4-8	<ul style="list-style-type: none"> • Syllabus • Anatomy of the respiratory system • Inhaling and exhaling • Pulmonary mechanics 	534-539 540-542, 544-545, 547 548-551
Week 2 Jan 11-15	<ul style="list-style-type: none"> • Flow and Resistance in the Respiratory system • Ventilation • Quiz 1 January 15 	543, 546 551-554
Week 3 Jan 18-22	<ul style="list-style-type: none"> • NO CLASS – Jan 18 • Gas exchange • Gas exchange continuation 	563-569, 553-555
Week 4 Jan 25-29	<ul style="list-style-type: none"> • Gas transport • Gas transport continuation • Quiz 2 January 29 	567-572 572-577
Week 5 Feb 1-5	<ul style="list-style-type: none"> • Guest lecture • Blood pathologies • Acid-base regulation 	642-647
Week 6 Feb 8-12	<ul style="list-style-type: none"> • Acid-base regulation continuation • Exercise, high altitude, diving • Quiz 3 February 12 	
Week 7 Feb 15-19	<ul style="list-style-type: none"> • NO CLASS – Feb 15 • Regulation of ventilation • Digestive system anatomy 	578-583 655-659
Week 8 Feb 22-26	<ul style="list-style-type: none"> • Digestive system Motility, Cephalic and Gastric phases • Digestive system Intestinal phase • Quiz 4 February 26 	661-664, 667-673 673-684
Week 9 Mar 1-5	<ul style="list-style-type: none"> • Digestive system Intestinal phase continuation • Microbiomes • Metabolism 	684-688 698-722
Week 10 Mar 8-12	<ul style="list-style-type: none"> • Metabolism continuation • Assignment/quiz due March 12 	
March 15	<ul style="list-style-type: none"> • Final exam 8 AM 	