

**COURSE SYLLABUS**

**Instructor:** Dr. Catalina Reyes

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**Office:** H&SS 1145A

**Office hours:** Wednesday 1 – 2 PM

Zoom: <https://ucsd.zoom.us/j/95834145703>

I will be offering one office hour during the week. I will hold office hours over Zoom (see link above or access through Canvas calendar).

**One-on-one or small group meetings** are also available at selected times. To book a 30-minute meeting please email me.

**ELECTRONIC COMMUNICATION**

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, discussion sections, schedule a one-on-one meeting with Catalina or ask during or after class. If you have questions about course organization, please refer to the Syllabus or post your question on the Canvas discussion board.

**Course website:** <https://canvas.ucsd.edu/>

Weekly To-Do-Lists, announcements, lectures slides, assignments and grades will be posted here. PLEASE check on a regular basis.

**IMPORTANT** – Lectures, midterms and the final exam are **in-person**, with the exception of LECTURES on Friday, October 27 and November 17, in which we will hold the lectures on Zoom (<https://ucsd.zoom.us/j/95834145703>).

- All lectures and discussion sections will be podcasted. You can access these materials through Media Gallery in Canvas or at [www.podcast.ucsd.edu](http://www.podcast.ucsd.edu)

**ACCOMMODATIONS:**

If you have a special circumstance or a family or medical emergency, please contact the instructor as soon as possible, so that we can find an accommodation.

**LECTURE:**

Monday, Wednesday, and Friday 11 – 11:50 AM FAH 1301

The lecture schedule (see below) is subject to change. **Lecture slides** will be posted on Canvas at least 24 hours before each lecture.

<b>TENTATIVE SCHEDULE</b>			
<b>Date</b>	<b>Topic</b>	<b>Silverthorne 8<sup>th</sup> ed</b>	<b>Problem set</b>
Sept 29	<ul style="list-style-type: none"> <li>Syllabus and Anatomy of the respiratory system</li> </ul>	534-539	
Week 1 Oct 2-6	<ul style="list-style-type: none"> <li>Pathologies</li> <li>Inhaling and exhaling</li> <li>Pulmonary mechanics</li> </ul>	540-545, 547 548-551	PS1
Week 2 Oct 9-13	<ul style="list-style-type: none"> <li>Flow and Resistance in the Respiratory system</li> <li>Ventilation</li> </ul> <p><b>Assignment 1 DUE Friday Oct 13 - 9 AM</b></p>	543, 546 551-554	PS1 and PS2
Week 3 Oct 16-20	<ul style="list-style-type: none"> <li>Gas exchange</li> <li>Gas exchange continuation</li> </ul> <p><b>Assignment 2 DUE Friday Oct 20 - 9 AM</b></p>	563-569 553-555	PS2 and PS3
Week 4 Oct 23-27	<ul style="list-style-type: none"> <li>Gas transport</li> <li>Gas transport continuation</li> </ul> <p><b>MIDTERM 1 – Friday October 27 6 PM – FAH 1301</b></p>	567-572 572-577	PS3
Week 5 Oct 30- Nov 3	<ul style="list-style-type: none"> <li>Blood pathologies</li> <li>Acid-base regulation</li> </ul>	642-647	PS4
Week 6 Nov 6-10	<ul style="list-style-type: none"> <li>Acid-base regulation cont.</li> <li>Regulation of ventilation</li> </ul> <p><b>NO CLASS November 10</b></p>	642-647 578-583	PS5
Week 7 Nov 13-17	<p><b>Assignment 3 DUE Monday Nov 13 - 9 AM</b></p> <ul style="list-style-type: none"> <li>Exercise, high altitude, diving</li> <li>Digestive system anatomy</li> </ul> <p><b>MIDTERM 2 – Friday Nov. 17 - 6 PM – FAH 1301</b></p>	655-659	PS5
Week 8 Nov 20-24	<p><b>Assignment 4 DUE Monday Nov 20 - 9 AM</b></p> <ul style="list-style-type: none"> <li>Digestive system Motility, Cephalic and Gastric phases</li> </ul> <p><b>NO CLASS November 24</b></p>	661-664, 667-673	PS6
Week 9 Nov 27- Dec 1	<ul style="list-style-type: none"> <li>Digestive system Intestinal phase</li> <li>Microbiomes</li> </ul>	673-688	PS6
Week 10 Dec 4-8	<ul style="list-style-type: none"> <li>Metabolism</li> <li>Temperature Regulation</li> </ul> <p><b>Assignment 5 DUE Friday December 8</b></p>	698-722	
Dec 12	<ul style="list-style-type: none"> <li><b>Final exam – CUMULATIVE 11:30 AM</b></li> </ul>		

**OPTIONAL TEXTBOOK:** Human Physiology, 8<sup>th</sup> edition by Dee Silverthorn. The 7<sup>th</sup>, 6<sup>th</sup> and 5<sup>th</sup> 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. You have a two-week period (October 13) to decide if you want to keep access or opt in. If you keep access, you will be charged \$39 for perpetual access to the eBook. If you have any questions concerning Inclusive Access, please contact the Bookstore at [textbooks@ucsd.edu](mailto:textbooks@ucsd.edu) or email [help@redshelf.com](mailto:help@redshelf.com). For any questions about using your eBook please reference RedShelf Solve.

**To OPT-IN:**

- Click the RedShelf link in Canvas
- Click View Course Materials
- Select "OPT-IN to Course Materials"
- Look out for an email from [donotreply@redshelf.com](mailto:donotreply@redshelf.com) and check their spam folders if they don't receive it.

Even though the text is **not required**, and the exams will **only** include the material seen in class, I provided recommended readings from the text for each topic. During the quarter journal articles may be posted as assignments.

**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.
6. Develop critical thinking skills.

**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 lectures.
4. Take notes while listening to the lectures.
5. Attend a discussion section.

**DISCUSSION SECTION:** During section, the IA will cover problem sets, you will be able to ask questions about the lecture material and important material will be reviewed.

Discussion sections will take place at the scheduled time on Zoom. Discussion sections are not mandatory.

IA	Email	Section	Location	Time
Alexandra Stream	<a href="mailto:astream@ucsd.edu">astream@ucsd.edu</a>	Discussion	Zoom Canvas calendar	Th 1-1:50 pm

### PROBLEM SETS

Problem sets will be posted on Canvas weekly. These questions are intended to further your understanding of the concepts learnt in lecture. Problem sets will be covered during discussion sections and the answers will be posted before the midterms. Problem sets are for practice, and you do not need to hand them in.

**DISCUSSION FORUMS** will be available through CANVAS for students to post questions.

**EXAMS, ASSIGNMENTS AND GRADING:****ASSIGNMENTS:**

- Assignments are short physiology exercises or questions evaluating each week's lecture materials or from assigned readings.
- There are a total of 5 assignments worth **12%** of the final grade. **5%** will be given for **completion** and **7%** will be given for **accuracy**.
- Assignments are open book. Please use your **own words** when answering the questions.
- Assignments will be posted on Monday or Friday by 9 AM on Canvas.
- To access the assignment, go to the Quiz Tab on the left panel of your Canvas page. Please use Chrome and don't click submit until you have answered all questions.
- Assignments are **timed** (allotted time will vary) and will close by **9 AM** on the due dates indicated on the table below (assignment due dates are also shown on the schedule).
- Since you have more than 2 days to complete the assignments, we will **NOT** accept late assignments.

<b>Assignment</b>	<b>Release date</b>	<b>Due date</b>
Assignment 1	Friday October 6	Friday October 13 - 9 AM
Assignment 2	Friday October 13	Friday October 20 - 9 AM
Assignment 3	Monday November 6	Monday November 13 - 9 AM
Assignment 4	Monday November 13	Monday November 20 – 9 AM
Assignment 5	Friday December 1	Friday December 8 - 9 AM

**CLASS PARTICIPATION**

Active participation in lecture is important for your learning. There will be several opportunities during lectures to participate. Participation points will be **3%** of your grade.

Lecture participation points will start counting on the Monday of week 2. To accommodate for technology issues, absences or any other circumstances, full attendance points will be given if you attend and click in **15 lectures out of 24**. This allows you to miss 3 weeks (9 lectures) of class after the first week. If you are sick, please use this dropped lectures and stay home.

If you have a situation or condition that will cause you to miss more than three weeks please contact us right away, so we can consider other options.

## MIDTERM EXAMS

- Each in-person midterm exam will be based on material for that section of the course up to the lecture preceding the exam.
- Each midterm is worth **25%** of the final grade.
  - Midterm 1 – Friday, **October 27, 6 PM FAH 1301**
  - Midterm 2 – Friday, November 17, **6 PM FAH 1301**

Exam scores will be available after grading, but the exam answers will not be posted. All questions about the content of the exams will be addressed in office hours.

## MISSING MIDTERM EXAMS

If you miss a midterm exam, you will be required to provide official documentation of an unavoidable emergency (serious illness, etc.) as soon as possible. The policy stated below (Grading) will **accommodate for the eventuality of disease or any other emergency**.

Regardless, if you are sick or concerned that you would endanger other by attending an in-person exam, please contact me as soon as possible to go over your options.

## FINAL EXAM

Please note that the final exam has been scheduled by the registrar and the policy is not to change the day or time of the final exam. **Everyone must take the final exam**; it cannot be dropped. If there is an exceptional circumstance, or you are sick, please contact me as soon as possible. We will likely schedule an oral exam.

The final exam is scheduled for **Tuesday, December 12, 11:30 AM**

- The final exam will be cumulative and in-person.
- 35% of the final grade

Please bring a **photo ID** to the exams, as we will be checking it. Students who do NOT have photo ID will not be permitted to take the exam.

## GRADING:

- If your final exam score is higher than **BOTH** midterms, the final exam will be worth 85% and the midterms grades will be removed.
- If one of your midterm exams (for example Midterm 1) is lower than the final exam, then the 25% of the lower midterm will be split in the following way:
  1. If your other midterm score (in this case Midterm 2) is higher than your final exam score, then 10% of the missed/low score midterm will be placed on the higher score midterm (in this case Midterm 2) to make that midterm worth 35% of your final grade. The remaining 15% (from Midterm 1 in this example) will be added to your final exam score, so that the final exam would be worth 50% of your final grade.

2. If the other midterm score (in this example Midterm 2) is also lower than your final exam score, then both midterms are lower than the final exam and the final is worth 85% of your final grade.

IMPORTANT - Please note that UCSD's policy is that "Vaccinated students who have been exposed [to COVID-19] are allowed to attend class and move about campus masked" which includes attending in-person exams. This does not include people who have COVID symptoms or a positive test result. You can find an up-to-date policy and more details here:

<https://returntolearn.ucsd.edu/return-to-campus/exposure-contact-tracing/index.html>

### GRADE SCALE

The top 5 grades in each exam will be averaged and normalized to a 100%. All other exam grades will be normalized accordingly.

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

### COURSE POLICIES

#### REGRADES

Occasionally errors, or ambiguities occur in an exam question. If you have a specific issue with a question, please email Catalina within 24 hours of completing the exam. The IAs and I will evaluate the question and we could either not change anything (if we think the questions is fair) or we could remove the question from the exam for the whole class.

If you have a specific concern about how an answer to an exam question was graded email the IA who graded the question, include BIPN 102 in the subject. You must do this within **one week** of the exam 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 academic work you submit for this course should be your own new original work. Exams are closed book and you must complete these exams without access to other resources or the person seating next to you. If we suspect you are cheating, we will remove your exam and submit your case to academic integrity.

Assignments are open book, but you must explain your answers in your **own** words. Assignments are to be completed **individually**, if we see two students with the same answers your case will be sent to academic integrity.

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

### **STUDENTS WITH DISABILITIES**

If you have a disability that might affect attendance or performance in the class, contact your IA or instructor as soon as possible, so that we can work with you in providing reasonable accommodations. To ensure proper support, anyone who requests accommodations due to a disability must get a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD). To contact OSD, use the student portal <https://academicaffairs.ucsd.edu/sso/osdsp/home>, or email the Biology OSD liaison at [bioosd@ucsd.edu](mailto:bioosd@ucsd.edu), or call 858-534-4382.



**HELPFUL RESOURCES AT UCSD**

If you are feeling overwhelmed, experiencing anxiety, depression or other condition please let us know as soon as possible. We can support you and give you some guidance on what resources are available at UCSD to ensure you can succeed during difficult times.

Academic Support	Psychology & Physical Safety*	Basic Needs
<p><b>OASIS (<a href="http://oasis.ucsd.edu">http://oasis.ucsd.edu</a>)</b> The Office of Academic Support &amp; Instructional Services (OASIS) offers math and science tutorial Programs for everyone. They also have services and scholarships for those of you who have overcome significant obstacles to become successful (like being first in your families to go to college).</p> <p><b>Teaching + Learning Commons (<a href="http://commons.ucsd.edu">http://commons.ucsd.edu</a>)</b> The Teaching + Learning Commons offers tutoring, consultations, and workshops on learning strategies as well as assistance with writing in the Writing + Critical Expression Hub.</p> <p><b>Educational Technology (<a href="https://digitalllearning.ucsd.edu/learners/learning-remotely/tools.html">https://digitalllearning.ucsd.edu/learners/learning-remotely/tools.html</a>)</b> EdTech has resources for understanding educational technologies like Zoom and Canvas.</p>	<p><b>CAPS (<a href="http://caps.ucsd.edu">http://caps.ucsd.edu</a>)</b> CAPS offers free, confidential counseling. They can help with urgent crises, such as an assault or thoughts of self-harm. They can also talk if you are worried about a friend or classmate.</p> <p><b>CARE at SARC (<a href="http://care.ucsd.edu">http://care.ucsd.edu</a>)</b> Campus Advocacy, Resources, and Education at the Sexual Assault Resource Center (CARE at SARC) offers support for those of you who have experienced sexual violence or violence from a partner. They have free confidential counseling, including on nights and weekends.</p>	<p><b>Triton Food Pantry (<a href="http://basicneeds.ucsd.edu/triton-food-pantry/">http://basicneeds.ucsd.edu/triton-food-pantry/</a>)</b> The Triton Food Pantry discreetly offers food for current UCSD students to ensure each of you has enough nutrition to get through the day.</p> <p><b>The Hub (<a href="https://basicneeds.ucsd.edu">https://basicneeds.ucsd.edu</a>)</b> The Hub serves those of you who have trouble accessing basic needs, including food or stable housing, or who have financial emergencies. They can help you connect with a variety of on- and off-campus programs, including the Food Pantry, CalFresh, emergency loans, emergency housing, or changes to your financial aid.</p>