

COURSE SYLLABUS

Instructor: Dr. Catalina Reyes

E-mail: creyesgonzalez@ucsd.edu

Office: HS&S 1145A

Office hours: Monday 11 AM – 12 PM

Zoom <https://ucsd.zoom.us/j/95060060892>

One-on-one or small group meetings are also available at selected times. Please email me if you would like to find a time to meet in person or over Zoom.

ELECTRONIC COMMUNICATION

Please contact your Instructional Assistant (IA) for general inquiries. Make sure to include **BILD 2** 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.

OBJECTIVES FOR THE COURSE

1. Introduce you to physiological processes of animals and plants
2. Learn how these processes and different systems work together to maintain homeostasis.
3. Learn the anatomy of the systems discussed in class.
4. Learn anatomical, physiological, and biomedical terms.
5. Learn how to read graphs and images.
6. Predict how changes or disturbances in cells, tissues or organs affect function
7. Ability to apply the knowledge acquired to solve physiological and medical problems.
8. Develop critical thinking skills to apply what you have learnt to solve scientific 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.
3. Learn to critically think about physiology.
4. Read through the power point presentations before lectures.
5. Take notes while listening to the lectures.
6. Attend a discussion section.

COURSE STRUCTURE

Lecture:

Week 1 and 2: Monday, Wednesday, and Friday 9–9:50 AM, Zoom
<https://ucsd.zoom.us/j/95536612159>. You can also find this link on the course Canvas calendar.

Week 3-10: Monday, Wednesday, and Friday 9–9:50 AM, PCYNH 106.

Lecture slides will be posted on Canvas at least 24 hours before each lecture.

Discussion sections:

During section, IAs 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 online for the first two weeks of the quarter. During weeks 3-10 Discussion sections will take place at the scheduled times and locations (see table below).

You will be able to attend any discussion section **if there is space**. Please contact the IA in your registered section and the IA of the discussion section you want to attend to inquire about switching sections. IAs will approve or deny your request by week 2.

IA	email	Section	Room	Section time
Emily Tran	e6tran@ucsd.edu	C01	CENTR 203	M 10-10:50 am
Christina Tran	cdtran@ucsd.edu	C02	CENTR 203	M 3-3:50 pm
Valerie Le	v1le@ucsd.edu	C03	CENTR 217A	W 8-8:50 am
Poorna Sharma	p1sharma@ucsd.edu	C04	CENTR 207	F 1-1:50 pm
Kiarash Pakravesh	kpakrave@ucsd.edu	C05	CENTR 207	F 2-2:50 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, unless you have a special circumstance and cannot attend any of the discussion sections, then you will have to submit them to your IA.

Discussion forums will be available through CANVAS for students to post questions.

COURSE TOOLS

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

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

On the first day of class I will demonstrate how to use Canvas and how to access all of the course resources. Remember this lecture will be on Zoom.

Zoom

Since lectures and, discussion sections will be online for the first **TWO WEEKS** of the Winter quarter and the instructor's office hours will be delivered through Zoom, you will need to set up a free PRO account. To do this go to <https://ucsd.zoom.us/>

Podcast

Week 3-10 Lectures and discussion sections will be in person. All lectures and discussion sections will be podcasted. You can access these materials through Media Gallery in Canvas or at www.podcast.ucsd.edu

Midterms and the final exam are **in-person**. Unless remote learning is extended.

COURSE MATERIALS

Required materials: iClicker

Register the iClicker on Canvas in the first week of classes.

Clickers will be used as a measure of lecture attendance. There will be several opportunities for you to participate in class.

Optional textbook: Campbell Biology, 8th, 9th, 10th, or 11th editions.

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 to decide if you want to keep access or opt out (**before January 15**). If you keep access, you will be charged \$29.18 for perpetual access to the eBook. If you have any questions concerning Inclusive Access, please contact the Bookstore at textbooks@ucsd.edu or email help@redshelf.com

EXAMS, ASSIGNMENTS AND GRADING:**1. iClickers**

Active participation in lecture is important for your learning. There will be several opportunities during lectures to participate with iClickers. Participation points will be **4%** of your grade

iClicker registration: you must register your clicker on Canvas (not the iClicker website). You cannot share the clicker with someone in the same class.

We will start counting iClicker participation for points starting on the **Monday of week 2**. To accommodate for clicker malfunction, lack of clicker batteries or any other circumstances, full attendance points will be given if you attend and click in 12 lectures out of 21. 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.

2. Discussion section attendance

Discussion sections are important, 4% of the grade will consist of attendance to sections. To get full points you will need to attend 5 discussion sections.

3. Professionalism

This grade is to motivate you to consider the consequences of your actions when interacting with peers, IAs or the instructor. Unprofessional interactions consume time and affect the dynamics of a class. We assume that everyone is professional, so you are awarded with these points at the beginning of the quarter. During the quarter IAs and/or instructor will observe the way you interact and communicate with the teaching team and peers. These includes one-on-one interactions, electronic communication, follow-up conversations on grades and regrades. Your awarded points (2%) may be deducted if we see unprofessional behavior.

4. Assignments

- Assignments are biweekly short exercises evaluating lecture materials.
- The assignments can be different formats (multiple choice, True/False, short answers, or questions based on a reading)
- The assignments will be posted every other Friday at 9 PM 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.
- Most assignments are **timed** (allotted time will vary) and will close by **10 AM** of **Monday or Wednesday** of the following week (see dates below and on the schedule).
- There are a total of 5 assignments worth 20% of the final grade.
- 5% will be given for completion and 15% will be given for accuracy, for a total of 15%

Assignment	Due date
Assignment 1	Monday, January 10 by 10 AM
Assignment 2	Monday, January 24 by 10 AM
Assignment 3	Monday, February 7 by 10 AM
Assignment 4	Wednesday, February 23 by 10 AM
Assignment 5	Monday, March 7 by 10 AM

EXAMS

5. Four 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 15% of the final grade. The **LOWEST** midterm grade will be dropped.
- Midterm 1 – Friday, January 14
- Midterm 2 – Friday, January 28
- Midterm 3 - Friday, February 11
- Midterm 4 - Friday, February 25

Final exam: Wednesday, March 16, 8 – 11 AM

- The final exam will be cumulative and in-person.
- 25% of the final grade

Midterm 1 will be held on Canvas. All other exams and final exam will be held in person during lecture and will be closed book. The exam format may change if extraneous circumstances push us to extend remote learning beyond the first two weeks of the quarter. If this is the case, we will notify you of the changes ahead of time.

The midterms will contain material for that section of the course up to the lecture preceding the exam. The final exam will be cumulative, covering the whole class but weighting the section of the course that has not been tested more heavily. Exam scores will be available after grading,

but the exam questions will not be returned. **All questions about the content of the exams will be addressed in office hours.**

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.

Missing a midterm exam

If you miss an exam, you will need to provide documentation of an unavoidable emergency (serious illness, etc.) as soon as possible. The policy of dropping one of the four midterm exams will accommodate for the eventuality of disease or any other emergency.

Regardless, if you are sick or concerned that you would endanger others 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.

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>

iClicker	4%
Discussion attendance	4%
Professionalism	2%
Assignments	Completion 5%, accuracy 15%
Highest Exam grade	15%
Next highest Exam grade	15%
Next highest Exam grade	15%
Lowest exam grade	0%
Final exam	25%
BONUS CAPES	1% in the final grade, if 90% response rate

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.

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 BILD 2 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.

Some assignments may be 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, or call 858-534-4382.

The lecture schedule (see below) is subject to change.

Date	Topic	Readings
Week 1 Jan 3-7	• Welcome and Syllabus	
	• Multicellular life and Surface Area to Volume ratios	Chapter 40
	• Homeostasis and Feedback loops	Chapter 40
Week 2 Jan 10-14	Assignment 1 DUE Monday, Jan. 10 by 10 AM	
	• Homeostasis and Thermoregulation	
	• Endocrine system	Chapter 45
Midterm 1 – Friday January 14		
Week 3 Jan 17-21	NO CLASS January 17	
	• Endocrine system cont.	Chapter 45
	• Nervous system structure and RMP	Chapter 48, 49
Week 4 Jan 24-28	Assignment 2 DUE Monday, Jan. 24 by 10 AM	
	• Nervous system Action potentials	Chapter 48, 49
	• Nervous system Synapse communication between cells	Chapter 48, 49
Midterm 2 – Friday January 28		
Week 5 Jan 31- Feb 4	• Nervous system: The brain and sensory physiology	Chapter 50
	• Muscle control	Chapter 50
	• Muscle control cont.	
Week 6 Feb 7-11	Assignment 3 DUE Monday, February 7 by 10 AM	
	• Circulation	Chapter 42
	• Circulation	Chapter 42
Midterm 3 – Friday February 11		
Week 7 Feb 14-18	• Gas Exchange	Chapter 42
	• Kidney function	Chapter 44
	• Kidney function	Chapter 44
Week 8 Feb 21-25	NO CLASS February 21	
	Assignment 4 DUE Wednesday, Feb. 23 by 10 AM	
	• Digestion and nutrition	Chapter 41
Midterm 4 – Friday February 25		
Week 9 Feb 28- Mar 4	• Digestion and nutrition	Chapter 41
	• Development	Chapter 47
	• Reproduction	Chapter 46
Week 10 Mar 7-11	Assignment 5 DUE Monday March 7 by 10 AM	
	• Reproduction	Chapter 46
	• Immune system 1	Chapter 43
	• Immune system 2	Chapter 43
March 16	Final Exam – cumulative – Wednesday, 8-11 AM	

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>OASIS (http://oasis.ucsd.edu) The Office of Academic Support & 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>Teaching + Learning Commons (http://commons.ucsd.edu) 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>Educational Technology (https://digitalllearning.ucsd.edu/learners/learning-remotely/tools.html) EdTech has resources for understanding educational technologies like Zoom and Canvas.</p>	<p>CAPS (http://caps.ucsd.edu) 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>CARE at SARC (http://care.ucsd.edu) 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>Triton Food Pantry (http://basicneeds.ucsd.edu/triton-food-pantry/) 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>The Hub (https://basicneeds.ucsd.edu) 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>