

Syllabus



Use the syllabus outline on the left to quickly navigate to sections in the syllabus

Anatomy is awesome. It's a study of the human body and how it's organized. So, it's a study of you! As instructors we believe in sharing that excitement with you and using teaching techniques that make you an active participant in both lecture and lab.

Course Overview

Instructional Team

Name	Role	Email	Contact	Office Hours (TATA 2501)
Mingyu Yang	Instructor	ymy@ucsd.edu	Email	M: 3:00-3:45pm, Tu: 2:00-2:45pm
Carlos Rojo	Instructor	carojo@ucsd.edu	Email	M: 3:00-3:45pm, Tu: 2:00-2:45pm
Jake Spero	TA	jspero@ucsd.edu	Email	M: 1:00-2:00pm, W/F: 12:00-12:30pm

Weekly Course Schedule and Structure

Lecture	Lab	Discussion
MWF: 9:00-9:50am TATA 2501	WF: 10:00-11:50am TATA 2501	None

Materials

Material	Description	Required?
Textbook	"Human Anatomy" (9th ed.) by Marieb	Optional

Features

- ☒ Podcasts available*
- ☒ Pre-class assignments
- ☒ In person lecture meeting required
- ☒ Uses virtual reality
- ☒ In person lab meeting required

*Lectures will mainly involve your active participation in small groups. Lecture podcasts, while available, won't serve as an effective substitute for attending lectures.

Course Description

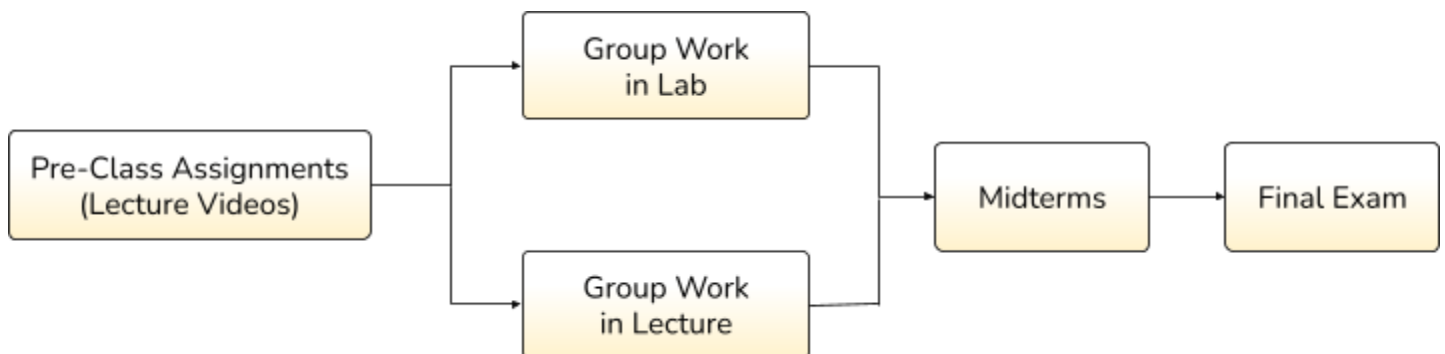
BIPN 103 covers the form and function of the human body. During lecture, you'll learn the cellular and structural organization of different organ systems, including the cardiovascular, digestive, muscular, nervous, renal, reproductive, respiratory, and skeletal systems. Then, during the lab you'll apply your knowledge with hands-on activities using physical and virtual-reality (VR) models.

Learning objectives

1. Apply correct anatomical terminology to describe the structure, location, or function of bodily structures.
2. Identify anatomical structures in the major organ systems of the human body.
3. Relate the structure of cells, tissues, and organ systems to their function.
4. Recognize and explain the relationships within and between the anatomical systems of the human body.
5. Describe structural or anatomical changes that occur in disease, injury or aging of the human body systems.

Course Structure

Given the intensity and amount of content in an anatomy course, we'll employ strategies that are proven to help you understand and remember the material. We believe in making you an active, engaged participant before, during, and after class. This is how learning happens. To be an active participant in lecture, you'll need to come to class with basic, foundational knowledge. So, **our course is centered on self-paced pre-lecture videos**. You'll watch the lecture content before class time at your own pace. We have added frequent question breaks throughout each video to help you check your own understanding. Then, in lecture and lab you'll work with a group of your classmates to apply what you learned to new questions and case studies. While this means you'll need to dedicate more time before lecture, it will also mean you'll have to spend less time after class studying on your own.



Assignments

Pre-class assignments (PCAs)

Before each lecture, you'll complete a Pre-Class Assignment (PCA), a collection of ~5-10 short videos (totaling around 1 hour) with practice questions embedded. Completion of these videos before the lecture is required (*due 8:50 am before each lecture*). To ensure everyone's prepared to work on in class problems and help each other, **there are no make ups for incomplete or late PCAs**. See "*Policies*" for additional details.

Group work in lecture

During lecture you'll work with classmates to practice and apply what you learned in the PCAs to new problems and case studies. Your instructors, TA, and your classmates will be there to support, helping prepare you for the lab session, quizzes, and future exams. Come with a positive, supportive attitude, ready to help and ask questions! Lecture attendance and active participation for the entire class period is required to earn credit for the session and **there are no make ups for missed lecture meetings**. See "*Policies*" for additional details.

Group work in lab

During lab you'll use 3D anatomical models, explore the body in virtual reality, and do other activities to practice what you've learned. Lab attendance, active participation, staying the full session, and submission of an in-lab worksheet activity are required to earn credit for the session. **There are no make ups for missed lab meetings**. See "*Policies*" for additional details.

Midterms

There will be **three midterm exams**. They each have two parts: a traditional paper-based exam during the lecture time, and a lab practical during lab time. All midterm exams are closed-book, must be done without assistance of any outside resource, and are predominantly non-cumulative. However, each organ system does build off previous material. So, some prior midterm's material may appear on a later midterm. When knowledge from a previous midterm is required, we'll make that clear in the learning objectives for the exam.

Final Exam

The final exam is similar to the midterms. It includes a traditional paper-based exam and a lab practical. However, the final exam is *cumulative*, with 40% of the final covering material since the last midterm and 60% of the final covering material from the three midterms. The final is closed-book and must be done without assistance of any outside resource.

Grading

Points breakdown

Assignment	Points	Percentage	Notes
PCAs	200	28%	• 10 pts each • 23 total • Drop 3 (count 20)
Lecture Participation	80	11%	• 4 pts each • 24 total • Drop 4 (count 20)
Lab Participation	65	9%	• 5 pts each • 15 total • Drop 2 (count 13)
Midterms	225	31%	• 3 total • Each 75 points • Lowest % can be replaced with final exam %
Final Exam	150	21%	• Cumulative
TOTALS	720	100%	

Grading System

Letter Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F
Percentage	97	93	90	87	83	80	77	73	70	60	<60
Points	698	670	648	626	598	576	554	526	504	432	<432

We care about creating a course where everyone can succeed. For that reason, the grading system has:

- **No curve.** Your grade is based on your earned scores only and the letter grade system above. This ensures you're not in competition with each other and that everyone theoretically can earn an A!
- **No extra credit or rounding.** Everyone's grade is based on their scores earned for the assignments above. This ensures that grading is more equitable and based solely on the assignments available to all students. The final grade is determined on the letter grade scale above. There will be no "rounding up" or extra credit to ensure that everyone is graded on the exact same scale.

Policies

Missed Assignments

Assignment	Policy	Rationale
Pre-class assignments	• No make ups or late assignments accepted • Lowest 4 PCAs are dropped	We're a team. Our class format depends on everyone being prepared to work together and help each other. So it's very important that we complete all the assigned lecture videos before each lecture.
Lecture meetings	• Attendance and participation required • Arrive on time and stay for a full session to earn credit. No partial credit • 4 missed lecture meetings are dropped	We're a team, remember? Our class format depends on everyone coming to class. So it's very important that you come to lecture on time, stay the full session, and actively participate to learn and help others learn.
Lab meetings	• Attendance and participation required • Arrive on time, stay for the full session, and submit any required worksheet to earn credit. No partial credit • 2 missed lab meetings are dropped	The team thing again. It's very important that you come to the lab on time, stay the full session, and actively participate to learn and help others learn.
Midterms and final exam	• Your lowest midterm exam grade can be replaced with your final exam score • Final exam cannot be dropped	Stuff happens. If you get sick, or one midterm doesn't go well, don't worry: your final exam score can be used to replace a missed or low midterm exam. But <i>since the final exam is cumulative, it cannot be dropped.</i>

Behavior

We care deeply about fostering a joyful, inclusive classroom climate. Our classroom should be a place where everyone is respected, feels safe to make mistakes, and lifts one another up. Since our class is heavily participation based (both in lecture and in lab) we require that you do your best to be patient, accommodating, kind, respectful, and professional in class at all times. Failure to do so may result in losing participation points for the day.

During the quarter we *may* visit UCSD's School of Medicine's cadaver lab to study anatomical structures on a donor (a person who passed away and donated their body for anatomical study). Adherence to instructions, safety guidelines, and behavior expectations will be strictly enforced. We are guests in the space, viewing the body of someone who donated their body to us. Unsafe or disrespectful behavior will result in removal from the lab. Intentional or repeated offenses may result in receiving a non-passing grade for the course.

Academic Integrity

By upholding high standards of integrity in this class, you can be confident that every student is fairly assigned the grade that they earned. Much of your grade is based on group work and pre-class videos. On these, you may use any resource you'd like. However, *any use of any outside resource not explicitly allowed by the instructor during exams is strictly forbidden and will result in receiving a "0" on that assignment.* It just wouldn't be fair to your classmates otherwise.

Extenuating Circumstances

We sincerely believe that everyone can succeed in this class. However, extenuating circumstances may arise that negatively impact your ability to participate in the course (for example, needing to miss more classes than the drop policy accommodates). If you find yourself needing additional accommodations or support, please reach out to your college's Dean of Student Life, and we'll work together with you and your Dean to plan a path forward.

Letters of Recommendation

We are always happy to write letters of recommendation. We are committed to helping you succeed both in this class and in the future. But the best letters come from knowing you beyond just your grades. If you think you might want a letter in the future, try to stay engaged in class, participate, and don't hesitate to stop by office hours or say hello after class. The more we get to know you, the better we can speak to your strengths. If we haven't had much of a chance to get to know you, we may not be able to write a strong letter (or any letter at all) so we invite you to reach out early and often!

Content Schedule *Subject to change during the quarter*

Date	Day	Class	Topic	Lab	Lab room
September 26	Friday	1	Class Overview	1	TATA
September 29	Monday	2	Intro to Human Body		
October 1	Wednesday	3	Tissues	2	TATA
October 3	Friday	4	Integumentary	3	DONOR
October 6	Monday	5	Bones and Skeletal Tissue		
October 8	Wednesday	6	Axial Skeleton	4	TATA
October 10	Friday	7	Appendicular Skeleton	5	TATA
October 13	Monday	8	Joints		
October 15	Wednesday	Midterm 1 (Lectures and Labs 2-7)			
October 17	Friday		No Class		
October 20	Monday	9	Muscular		
October 22	Wednesday	10	Muscular	6	TATA
October 24	Friday	11	Nervous Tissue, Central Nervous System	7	TATA
October 27	Monday	12	Central Nervous System		
October 29	Wednesday	13	Peripheral Nervous System	8	TATA
October 31	Friday	Midterm 2 (Lectures and Labs 8-12)			
November 3	Monday	14	Autonomic Nervous System		
November 5	Wednesday	15	Special Senses	9	TATA
November 7	Friday	16	Heart and Blood	10	TATA
November 10	Monday	17	Blood Vessels		
November 12	Wednesday	18	Blood Vessels	11	TATA
November 14	Friday	19	Respiratory	12	TATA
November 17	Monday	20	Respiratory		
November 19	Wednesday	Midterm 3 (Lectures and Labs 13-18)			
November 21	Friday	21	Digestive	13	TATA
November 24	Monday	22	Digestive		
November 26	Wednesday	Holiday			
November 28	Friday				
December 1	Monday	23	Reproductive		
December 3	Wednesday	24	Reproductive	14	TATA
December 5	Friday	25	Review	15	TATA
December 10	Wednesday	Cumulative Final Exam			

