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# BILD2

Multicellular Life  
Winter quarter 2023

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**Peterson hall 110, M/W/F 8:00-8:50 am**

**Instructor:** Jiyoung Park <[j9park@ucsd.edu](mailto:j9park@ucsd.edu)>

(Include BILD2 in the subject line of your emails)

**Office Hours:** **Mon** 9-10 am (HSS 1145A and Zoom) and **Tues** 1:30-2:30 pm (Zoom only)

**Course Website:** <http://Canvas.ucsd.edu>

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## Important Note to in-person modality of this course

Welcome to BILD 2 at UC San Diego! While we are very excited to meet you in person, we will try our best to make this course pandemic resilient. That means, this course will be delivered in person while keeping all of us as safe as possible. For us, it is very important to help you learn biology and build your career AND take care of your physical and mental health. Please understand that as things are changing very quickly, class logistics and policy can be modified at any time during the quarter to comply with the guidance of UCSD or Health Authorities or change in Covid-19 situation. You will be notified, in advance, of any changes during regularly scheduled class.

We will ask you to take your responsibilities by following these:

- ***Public Health Expectations and Best Practices***
  - Public health is a collective effort. Keeping the UC San Diego community healthy takes all of us following campus safety requirements to help prevent infection. You are also expected to follow university public health requirements and pursue personal protection practices to protect yourself and the others around you. These include:
- ***Stay home if you're feeling ill.***
  - If you're not feeling well, complete the symptom screener and if needed, get tested for COVID-19. Do not come to campus unless given the all-clear.
- ***Participating in the university's daily screening process.***
  - Everyone completes a Daily Symptom Screener.
- ***Participating in the university's testing program.***
  - All students are required to participate in the COVID-19 Testing program as required.
- ***Feel free to wear a well-fitting mask that covers your nose and mouth.***
  - Although masking is optional in classrooms, feel free to wear a mask indoors.
- ***Monitor potential exposures and comply with contact tracing efforts.***
  - Look out for the daily updates and potential exposure list that the university sends out with building information and the dates of exposure.
- ***Contact the instructional team if you are impacted by COVID-19***

## Course Description

An introduction to the physiological processes of diverse multicellular organisms at the systems, tissue, and cellular levels. BILD 1, The Cell, serves as a prerequisite for this course.

## Overall Course Outcomes

By the end of this course, you will be able to:

1. Understand the forms of multicellular organisms and their functions at the levels of organ systems, organs, tissues, and cells.
2. Expand the form-function relationship for diverse living environments, changes in external and internal conditions, and disease states of organisms.
3. Apply knowledge to assess and solve novel problems in a scientific way.

## Discussion sections and Instructional assistants (IAs)

Here, you can find the IA assigned to your section, who will be the primary point of contact when you have any questions regarding the course. You can also contact the instructor at [j9park@ucsd.edu](mailto:j9park@ucsd.edu).

<b>Rohit Ahuja</b>	<a href="mailto:rlahuja@ucsd.edu">rlahuja@ucsd.edu</a>	<b>B01 (M 7-7:50pm)</b>	SOLIS 110
<b>Lisbeth Robles Galdamez</b>	<a href="mailto:lroblesg@ucsd.edu">lroblesg@ucsd.edu</a>	<b>B02 (M 8-8:50pm)</b>	SOLIS 110
<b>Anthony Hoang</b>	<a href="mailto:aphoang@ucsd.edu">aphoang@ucsd.edu</a>	<b>B03 (Th 7-7:50pm)</b>	HSS 1305
<b>Peter Vu</b>	<a href="mailto:p1vu@ucsd.edu">p1vu@ucsd.edu</a>	<b>B04 (Th 8-8:50pm)</b>	HSS 1305
<b>Yuxuan Vanessa Fu</b>	<a href="mailto:yuf003@ucsd.edu">yuf003@ucsd.edu</a>	<b>B05 (F 4-4:50pm)</b>	CENTR 217B
<b>Yuxuan Vanessa Fu</b>	<a href="mailto:yuf003@ucsd.edu">yuf003@ucsd.edu</a>	<b>B06 (F 5-5:50pm)</b>	CENTR 217B
<b>Stephanie Tran</b>	<a href="mailto:s9tran@ucsd.edu">s9tran@ucsd.edu</a>	<b>B07 (F 6-6:50pm)</b>	CENTR 217B
<b>Samuel Chan</b>	<a href="mailto:s4chan@ucsd.edu">s4chan@ucsd.edu</a>	<b>B08 (F 7-7:50pm)</b>	CENTR 217B

## Communications

If you have any questions about the course, the instructor and IAs will be available to assist, during office hours, via Q&A board on Canvas, via email, or by scheduling an additional appointment. You can visit **any of the office hours below**. You can also **email your section IA or the instructor** for any questions. To improve the availability of the instructor and IAs, office hours and individual meetings can be held either in-person or online.

If an extended illness or circumstance including natural disasters affects your performance in class, please consult the instructor immediately.

## Office hours

	Email	Office hours (Location / Zoom link)
Dr. Jiyoung Park	<a href="mailto:j9park@ucsd.edu">j9park@ucsd.edu</a>	Mon 9-10am (HSS 1145A and <a href="#">Zoom</a> ) Tues 1:30-2:30pm ( <a href="#">Zoom</a> ), or by appointment
Rohit Ahuja	<a href="mailto:r1ahuja@ucsd.edu">r1ahuja@ucsd.edu</a>	Wed 11am-12pm ( <a href="#">Zoom</a> )
Lisbeth Robles Galdamez	<a href="mailto:lroblesg@ucsd.edu">lroblesg@ucsd.edu</a>	Wed 5-6pm ( <a href="#">Zoom</a> )
Anthony Hoang	<a href="mailto:aphoang@ucsd.edu">aphoang@ucsd.edu</a>	Fri 1:00-1:50pm ( <a href="#">Zoom</a> )
Peter Vu	<a href="mailto:p1vu@ucsd.edu">p1vu@ucsd.edu</a>	Fri 4-4:50pm ( <a href="#">Zoom</a> )
Yuxuan Vanessa Fu	<a href="mailto:yuf003@ucsd.edu">yuf003@ucsd.edu</a>	Tues 9:30-10:30am ( <a href="#">Zoom</a> )
Stephanie Tran	<a href="mailto:s9tran@ucsd.edu">s9tran@ucsd.edu</a>	Tues 12:30-1:20pm ( <a href="#">Zoom</a> ) Password: B07
Samuel Chan	<a href="mailto:s4chan@ucsd.edu">s4chan@ucsd.edu</a>	Thurs 5:00-5:50pm ( <a href="#">Zoom</a> )

## What do we value in this course?

**In-person learning is essential** to help you study this course, as we have seen through the pandemic. You will benefit a lot from connecting with one another in person, with the instructor, the IAs and your peers. So we will try our best to provide in-person instruction, while making sure everyone is as safe as possible. Here are the key thoughts that we want to share with you.

**In-person attendance will be highly recommended, unless you are ill.** You are strongly encouraged to join the lectures and the discussion sections that you enrolled in. If you are feeling ill or you should quarantine, you can choose to participate in the lectures remotely at your place or asynchronously.

**Class materials will be available online, asynchronously.** Class slides will be available on Canvas before class. Class meetings (lectures and sections) will be podcasted, which means you can watch the recordings afterwards. We will also try to broadcast the lectures live via Zoom, so anyone who cannot come to the campus can participate remotely.

**BUT it is important to complete assignments on time.** The reason we make lecture attendance flexible is so that you don't risk coming to class, when you are ill or you should quarantine. This does not mean that you can procrastinate. To help you follow the course schedule, you will need to complete three sets of review questions and one wrap-up question every week on Canvas.

**Also academic integrity is important.** Exams must be taken **in person** in the designated classroom during the registered class hours that you enrolled in. If you are not able to take exams within this time, because you are **feeling ill or you should quarantine**, or because a **verifiable, unplanned emergency** happens, you **MUST** notify the instructor immediately to discuss your best options given your circumstances. You can drop **ONE Exam** among the four.

## Basic Course structure

Here is how a typical week may look for you.

Day	What to Do
Monday	Join the class meeting Join your discussion section, if applicable
Tuesday	Complete Daily review questions
Wednesday	Join the class meeting
Thursday	Complete Daily review questions Join your discussion section, if applicable
Friday	Join the class meeting Join your discussion section, if applicable
Saturday	Complete Daily review questions Complete Weekly Wrap Up Questions

## Class Materials and Tools

### Canvas (Course website)

All course related information including announcements, lecture slides, daily review questions, and practice problems will be found on Canvas. You can go to <http://Canvas.ucsd.edu>, and find BILD2 Winter quarter 2023. It is your responsibility to access the course website regularly to participate in classes and discussion sections. Please check the Canvas site and your UCSD email regularly to view announcements, submit assignments, and ensure your grade totals are accurate. Turning on notifications on Canvas is highly encouraged.

- **Where are the class slides and suggested readings?** Go to the weekly modules such as **Week 1 module** in the screenshot and find pages assigned for each day. For example, go to “**Ch. 40 Animal Structure 1**” page to find lecture slides and suggested readings. Weekly modules will be available on Saturdays before each week.
- **How can I join Zoom for online office hours and other meetings?** The Zoom links are available in the “**Zoom links**” page under the **Welcome module**. Also, you can go to the “**Zoom**” menu on the left side and click on the tab “**Upcoming Meetings.**” To get your free Zoom

Winter 2023

- Home
- Syllabus
- Modules
- Media Gallery
- Grades
- Gradescope
- Academic Integrity
- Academic Support
- Zoom
- My Media
- Library Resources
- Course Reserves

▼ Week 1

- Week 1 Overview [READ]

Jan 9

- Ch. 40 Animal Structure 1
- 1/9 Review Questions  
Jan 10 | 3 pts

Jan 11

- Ch. 40 Animal Structure 2
- Ch. 41 Digestion and Nutrition 1
- Ch. 41 Supporting videos
- 1/11 Review Questions  
Jan 12 | 3 pts

PRO account, go to: <https://ucsd.zoom.us/>. Make sure that Zoom is installed on your electronic device before using it for the first time.

- **How can I watch the recordings of the class meetings and the discussion sections (Podcasts), if missed?** Go to the “[Media Gallery](#)” link on the left side. You can also find the podcasts at <https://podcast.ucsd.edu/>.

### Recommended Text:

*Campbell Biology 12<sup>th</sup>* by Urry, Cain, Wasserman, Minorsky and Orr (Pearson, 2020). Older editions such as 10<sup>th</sup> or 11<sup>th</sup> are acceptable.

### Grading & Course components

Assessments in this course are *not* to judge you, but to check your understanding that will *help your learning*. So please let your instructor know, if you have any questions on the course content or any concerns regarding assessments.

Assignment	Points	#	Total possible points	Percent
<b>Daily Review questions</b> (Drop the lowest)	3	25	72	17%
<b>Section Participation</b> (Drop the lowest THREE)	10	10	70	16%
<b>Weekly Wrap-up questions</b> (Drop the lowest)	5	10	45	11%
<b>Exams</b> (Drop the lowest)	80	4	240	56%
<b>Extra credit opportunities</b> (For details, check #7 below)			up to 15	
<b>Total</b>			<b>427 + a</b>	<b>100%</b>

### Grading criteria

Grade assignments will be based on the percentage of total points earned. We do not decide your grade, but rather you as a student do the work to earn your grade. **Grading in this course will be linear, *not* curved. Final grades will not be rounded up.** There will be no additional extra credit opportunities in addition to what is in the syllabus. The point cut-offs listed below will be strictly followed when assigning final letter grades.

≥ 97.0%	A+	94.0% to < 97.0%	A	90.0% to < 94.0%	A-
87.0% to < 90.0%	B+	84.0% to < 87.0%	B	80.0% to < 84.0%	B-
73.0% to < 80.0%	C+	66.0% to < 73.0%	C	60.0% to < 66.0%	C-
50.0% to < 60.0%	D	< 50.0 %	F		

## 1. Class

Each class will be composed of short instruction that explains important concepts followed by poll questions that can help you check your understanding. Your answers to the questions will not be graded, but it will be a very efficient way to solidify your learning and to prepare for exams.

You are highly encouraged to join the class. If you are feeling ill or you should quarantine, you can choose to participate in the class remotely at your place or asynchronously. Physical attendance on campus will not be recorded and not required for grades.

## 2. Daily Review Questions

After reviewing the class materials, students will need to complete online daily review questions to test their understanding of the concepts that were discussed. Each week, you will answer three sets of 3 multiple choice questions. Up to 2 attempts are allowed to get the full credit. They are **due Tuesdays, Thursdays or Saturdays after the class meeting**. The grade on the day with the lowest score will be dropped from the final grade.

## 3. Discussion Section

Discussion sections are designed to help you apply your knowledge and exercise your skills, by reviewing the lecture materials in groups and solving practice problems which exam questions will be similar in format. You can find the Practice Problems for each chapter on Canvas. Answer keys to Practice Problems will be posted on Canvas **four days before each exam**.

Discussion sections will start **in Week 1**. You are required to join the discussion section that you enrolled in. You could earn the Discussion Section Participation points by attending each section and actively participating in sections. To earn the discussion section participation points, students should complete the discussion section quiz by 11:59 pm of the discussion day or by the due date that your IA sets. The access code to the discussion section quiz will be given during each in-person discussion section. Completing the discussion section quiz without attending in-person sections is prohibited. Late submission will not be accepted.

Students can earn the full credit for Section Participation by **attending 7 or more weeks of discussion sections** throughout the whole 10-week quarter. That means, if you happen to miss a section due to an emergency, that will not affect your final grade. Students may not use "drop the lowest three" when they cannot attend a discussion section for any reason including illness and family emergencies. Plan your quarter accordingly, so you can keep this opportunity for an emergency.

## 4. Weekly Wrap Up questions

By each Saturday starting Week 1, you need to submit your answer to Weekly Wrap Up questions. They will be free response questions, which can be part of practice problems or learning objectives covered in the week. Weekly Wrap Up questions may include scientific literature that can be related to the topic of the week. While you do not need to answer each question correctly, your responses must be meaningful and demonstrate effort and critical

thinking to receive full credit. The grade on the day with the lowest score will be dropped from the final grade.

## 5. Exams

Exams are designed to facilitate applying knowledge to solve novel problems in a scientific way. There will be **three exams** and one **cumulative final exam** throughout the course. All exams including the cumulative final exam will be worth 80 points, and the lowest one among the four exams will be dropped from the final grade. Questions could be in various formats, including multiple choice, fill-in and free response questions. Each exam except the final exam will cover information from previous lectures since the last exam. Materials presented in class material, lectures, suggested readings, discussion sections, and practice problems can be covered. Check the posted study guides, which will be a collection of learning objectives for each chapter.

Exams must be taken **in person in the designated classroom during the scheduled exam times**, unless announced otherwise. That means, you will need to take your midterms at **Peterson Hall 110 between 8 am and 8:50 am** on the exam dates. Final exam will be on **Monday, March 20 between 9 am and 9:50 am**. The final exam location will be announced in the class. As the exam dates are set and posted, they will not be changed, so plan your quarter accordingly. For more information about exam dates and course topics, please see the *Class schedule* section below.

If you are **feeling ill or you should quarantine**, or a **verifiable, unplanned emergency** happens, you **MUST** notify the instructor of the problem as soon as it is reasonable to do so. We will discuss your best options given your circumstances.

## 6. Supplemental instruction (SI) and Study groups

**Supplemental Instruction (SI)** sessions offer students the opportunity to master course material within a community of learners. It is offered through the Academic Achievement Hub at UC San Diego, and has a separate canvas site. (More information can be found on the AAH web page: <https://aah.ucsd.edu/supplemental-instruction/>) The SI program gives students a safe and inclusive environment to engage with, ask questions, and review lecture material with their peers. The SI Leaders facilitate these discussions through activities and guided questioning.

For information regarding SI sessions days/times for your course, please refer to [the AAH website](#) for the most up to date schedule.

**SI leader:** Gracie Bartell ([gbartell@ucsd.edu](mailto:gbartell@ucsd.edu))

**SI schedule** (subject to change): For information regarding SI sessions days/times for your course, please refer to the [AAH website](#) for the most up to date schedule.

- Tuesday: 12 - 1:20p, TLC 1504
- Thursday: 12 - 1:20p, Zoom (Link [here](#) and on Canvas)

## 7. Extra credit opportunities

- 3 points for **meeting with Prof. Park or an IA during office hours** or another meeting. You will earn the points for your first meeting, but you can visit us as many times as you want! Just let us know that it is your first time to come to an office hour.
- 3 points for **“About Me” one pager**. You can submit a 1-page slide to introduce yourself and this one pager will be played at the beginning of each class. You will earn points for your first one pager.
  - You could include your name, class year, hometown, a photo of yourself (if you are comfortable to share) or a photo of something meaningful to you, 1 sentence of hobby or interest you have.
  - If you have an event to advertise, include that!
- 2 points each for 3 **exam reflections**. After Exams 1, 2 and 3, you can complete reflection questions about how you prepared for the exam and how the course is going.
- 3 points for **CAPE survey**: if more than 80% of the class complete CAPE survey in a constructive and professional way, everyone in this class will earn 3 extra credit points.

## 8. Late policy

Weekly Wrap Up quiz and daily review questions can be submitted **after due dates with late penalties**. Late submissions will be given half-credit for one day after the due date, and after that they will be given no credit.

Remember that for all assignment groups, you can **drop one or more without any impact** on your score. That means if you happen to miss one or turn it in late, or your life is too busy a certain week, it will not negatively impact your course score.

## 9. Regrades

If a grading error has been made, you should submit a re-grade request via Gradescope. Students who submit items for re-grading understand that we may re-grade the entire item and the score may go up or down.



**Class schedule (\*subject to change)**

Week	Date	Lecture	Suggested Readings (Specific figures / paragraphs are posted on Canvas)
1	Jan 9 (M)	Animal Structure	Chapter 40
	Jan 11 (W)	Animal Structure Digestion & Nutrition	Chapter 40 Chapter 41
	Jan 13 (F)	Digestion & Nutrition	Chapter 41
2	Jan 16 (M)	<b>No Class - Holiday</b>	
	Jan 18 (W)	Circulation	Chapter 42
	Jan 20 (F)	Circulation Gas Exchange	Chapter 42
3	Jan 23 (M)	Gas Exchange	Chapter 42
	Jan 25 (W)	<b>Exam 1 (Ch. 40, 41, 42 - Circulation)</b>	
	Jan 27 (F)	Nervous System I	Chapter 48
4	Jan 30 (M)	Nervous System I & II	Chapter 48, 49
	Feb 1 (W)	Nervous System II	Chapter 49
	Feb 3 (F)	Sensory Systems	Chapter 50
5	Feb 6 (M)	Sensory Systems Muscle Control	Chapter 50
	Feb 8 (W)	Muscle Control	Chapter 50
	Feb 10 (F)	Kidney Function	Chapter 44
6	Feb 13 (M)	Kidney Function	Chapter 44
	Feb 15 (W)	<b>Exam 2 (Ch. 42 - Gas exchange, 48, 49, 50)</b>	
	Feb 17 (F)	Plant Hormone	Chapter 39
7	Feb 20 (M)	<b>No Class - Holiday</b>	
	Feb 22 (W)	Plant Hormone Plant Nutrition and Transport	Chapter 39 Chapter 36, 37
	Feb 24 (F)	Plant Nutrition and Transport	Chapter 36, 37
8	Feb 27 (M)	Hormone Action	Chapter 45
	Mar 1 (W)	Hormone Action	Chapter 45
	Mar 3 (F)	Immune System I	Chapter 43
9	Mar 6 (M)	Immune System II	Chapter 43
	Mar 8 (W)	<b>Exam 3 (Ch. 36, 37, 39, 44, 45)</b>	
	Mar 10 (F)	Immune System III	Chapter 43
10	Mar 13 (M)	Animal Reproduction	Chapter 46
	Mar 15 (W)	Animal Reproduction Animal Development	Chapter 46 Chapter 47
	Mar 17 (F)	Animal Development	Chapter 47
	Finals Week	<b>Final exam (Cumulative with emphasis on new material)</b> Monday, Mar 20, 9:00am - 9:50am	

## Student Resources for Support and Learning

### Learning Resources

[Writing Hub](#)

[Supplemental Instruction](#)

[Content Tutoring](#)

[Learning Strategies Tutoring](#)

### Academic Accommodations

Students requesting accommodations for this course due to a disability must provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) (<https://osd.ucsd.edu/>). We will try our best to provide accommodations listed in your AFA letter. Please note that instructors are unable to provide accommodations unless they are first authorized by OSD.

Contact the OSD for further information:

<https://osd.ucsd.edu/> | [osd@ucsd.edu](mailto:osd@ucsd.edu) | (858) 534-4382

### Technical Support

For help with accounts, network, and technical issues, contact the IT Service Desk:

<https://support.ucsd.edu/its/>

### Mental Health Services

Counseling and Psychological Services (CAPS) provides individual, group, couples, and family psychotherapy to registered undergraduate and graduate students.

CAPS (<https://caps.ucsd.edu/>) | Phone & Crisis: 858-534-3755 | Emergencies: 911

## UC San Diego Academic Policies

### Discrimination and harassment

The University of California, in accordance with applicable federal and state laws and university policies, does not discriminate on the basis of race, color, national origin, religion, sex, gender, gender identity, gender expression, pregnancy (including pregnancy, childbirth, and medical conditions related to pregnancy or childbirth), physical or mental disability, medical condition, genetic information, ancestry, marital status, age, sexual orientation, citizenship, or service in the uniformed services (including membership, application for membership, performance of service, application for service, or obligation for service in the uniformed services). The university also prohibits harassment based on these protected categories, including sexual harassment, as well as sexual assault, domestic violence, dating violence, and stalking. The nondiscrimination policy covers admission, access, and treatment in university programs and activities.

If students have questions about student-related nondiscrimination policies or concerns about possible discrimination or harassment, they should contact the Office for the Prevention of Harassment & Discrimination (OPHD) at <https://ophd.ucsd.edu/report-bias/>, (858) 534-8298, or [ophd@ucsd.edu](mailto:ophd@ucsd.edu).

Campus policies provide for a prompt and effective response to student complaints. This response may include alternative resolution procedures or formal investigation. Students will be informed about complaint resolution options.

A student who chooses not to report may still contact CARE at the Sexual Assault Resource Center for more information, emotional support, individual and group counseling, and/or assistance with obtaining a medical exam. For off-campus support services, a student may contact the Center for Community Solutions (<https://www.ccssd.org/>). Other confidential resources on campus include Counseling and Psychological Services, Office of the Ombuds, and Student Health Services.

CARE at the Sexual Assault Resource Center  
858.534.5793 | [sarc@ucsd.edu](mailto:sarc@ucsd.edu) | <https://care.ucsd.edu>

Counseling and Psychological Services (CAPS)  
858.534.3755 | <https://caps.ucsd.edu>

**Academic Integrity:**

Academic Integrity is expected of everyone at UC San Diego. This means that you must be honest, fair, responsible, respectful, and trustworthy in all of your actions. Lying, cheating, or any other forms of dishonesty will not be tolerated because they undermine learning and the University's ability to certify students' knowledge and abilities. Thus, any attempt to get, or help another get, a grade by cheating, lying or dishonesty will be reported to the Academic Integrity Office and will result in sanctions. Sanctions can include an F in the class and suspension or dismissal from the University. So, think carefully before you act. Ask yourself the following questions: a) is my action honest, fair, respectful, responsible, and trustworthy, and b) is my action authorized by the instructor? If you are unsure, don't ask a friend, ask your instructor, instructional assistant, or the Academic Integrity Office. You can learn more about academic integrity at <https://academicintegrity.ucsd.edu/>.