
BILD2

Multicellular Life Spring quarter 2022

B00 M/W/F 8 - 8:50am, York hall 2622

C00 M/W/F 9 - 9:50am, York hall 2622

Instructor: Jiyoung Park <j9park@ucsd.edu>

(Include B00 or C00 in the subject line of emails)

Office Hours: after each class (in person) and
Thursday 4-5 pm (Zoom), or by appointment

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

Important Note to in-person modality of this course

Welcome to BILD 2 at UC San Diego! For some of you, this may be your first time coming to campus. For others, it may have been a while since you were away from campus. 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 must complete 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 by their vaccination status.
- **Wear a well-fitting mask that covers your nose and mouth at all times in the classroom.**
 - Everyone is required to [wear masks indoors](#) regardless of vaccination status. If you see someone not wearing a mask, or wearing it incorrectly, kindly ask them to mask up.
- **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.

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.

| | | | |
|------------------------------|-----------|-----------------------------|--|
| B01 (M 4:00p-4:50p) | WLH 2112 | Krystal Bosmans | kbosmans@ucsd.edu |
| B02 (M 5:00p-5:50p) | CENTR 220 | Krystal Bosmans | kbosmans@ucsd.edu |
| B03 (M 12:00p-12:50p) | WLH 2115 | Minji Kang | m5kang@ucsd.edu |
| B04 (F 2:00p-2:50p) | WLH 2115 | Irene Hsieh | chsieh@ucsd.edu |
| B05 (F 3:00p-3:50p) | WLH 2115 | James Garza | jrgarza@ucsd.edu |
| C01 (F 10:00a-10:50a) | HSS 2154 | Mohammed Tariq Qayum | mtqayum@ucsd.edu |
| C02 (F 2:00p-2:50p) | HSS 2150 | Yuxuan Vanessa Fu | yuf003@ucsd.edu |
| C03 (W 3:00p-3:50p) | WLH 2206 | Nicca Falah | nfalah@ucsd.edu |
| C04 (W 4:00p-4:50p) | WLH 2206 | Baneen Ali | bfali@ucsd.edu |
| C05 (F 8:00a-8:50a) | HSS 1315 | Mohammed Tariq Qayum | mtqayum@ucsd.edu |

Communications and Office hours

If you have any concerns or questions about the material, the instructor and your IA 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.

| | Email | Office hours |
|-----------------------------|--|---|
| Dr. Jiyoung Park | ji9park@ucsd.edu | M/W/F 9:50 - 10:20am (Revelle outdoor tent, also available on Zoom) Tu/Th 9:20 - 9:50am (Outside the Craft Center, 2nd floor of Mosaic hall, also available on Zoom) Th 4 - 5 pm (Zoom link on Canvas) |
| Krystal Bosmans | kbosmans@ucsd.edu | M 1 - 2 pm (Zoom link on Canvas) |
| Minji Kang | m5kang@ucsd.edu | W 2 - 3pm (Zoom link on Canvas) |
| Irene Hsieh | chsieh@ucsd.edu | W 3 - 4pm (Zoom link on Canvas) |
| Mohammed Tariq Qayum | mtqayum@ucsd.edu | M 9 - 10pm (Zoom link on Canvas) |
| Yuxuan Vanessa Fu | yuf003@ucsd.edu | F 10:30 - 11:30am (Zoom link on Canvas) |
| Nicca Falah | nfalah@ucsd.edu | W 11am - 12pm (Zoom link on Canvas) |
| Baneen Ali | bfali@ucsd.edu | Tu 6 - 7pm (Zoom link on Canvas) |
| James Garza | jrgarza@ucsd.edu | W 4-5pm (Zoom link on Canvas) |

What do we value in this course?

In-person learning is essential to help you study this course, as we have seen over a year of 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 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 class remotely at your place or asynchronously. To make our class more accessible and flexible, you can join any discussion sections listed. Physical attendance on campus will not be recorded and not required for grades.

Class materials will be available online, asynchronously. Class slides will be available at the class site (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 class 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 online.

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.

Basic Course structure

Here is how a typical week may look for you.

| Day | What to Do |
|-----------|--|
| Monday | Join the live class meeting |
| Tuesday | Complete Daily review questions |
| Wednesday | Join the live class meeting |
| Thursday | Complete Daily review questions |
| Friday | Join the live class meeting |
| 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 Spring quarter 2022. 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 e-mail 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?** 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?** Go to the “**Zoom LTI Pro**” link on the left side and click on the tab “**Upcoming Meetings.**” There, you can see the scheduled Zoom meetings for office hours and others. The Zoom links are also available in the “**Zoom links**” page under the **Welcome module**. To get your free Zoom 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, if missed?** Go to the “**Media Gallery**” link on the left side. Alternatively, your IA may post the section recordings in their module in Canvas or announce where you can find them.

Spring 2022

Home

Syllabus

Modules

Zoom LTI PRO

Media Gallery

Grades

Gradescope

Academic Integrity

Academic Support

My Media

Library Resources

• Welcome! This Canvas page is for both B00 and C00

Syllabus

Extra Credit: "About Me" one pager
Jun 10 | 0 pts

Zoom links for lectures, sections and office hours

Support

Week 1

Week 1 Overview [READ]

Mar 28

Ch. 40 Animal Structure 1

3/28 Review Questions
Mar 29 | 3 pts

Recommended Text:

Campbell Biology 12th by Urry, Cain, Wasserman, Minorsky and Orr (Pearson, 2020). Older editions such as 10th or 11th 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 points | Percent |
|--|--------|----|----------------|-------------|
| Daily Review questions (Drop the lowest) | 3 | 26 | 75 | 21% |
| Weekly Wrap Up questions (Drop the lowest) | 5 | 10 | 45 | 12% |
| Exams (Drop the lowest) | 80 | 4 | 240 | 67% |
| Extra credit opportunities (For details, check #7 below) | | | up to 15 | |
| Total | | | 360 + a | 100% |

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.** 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 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 that you enrolled in. 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 lecture materials, students will need to complete online daily review questions to test their understanding of the concepts that were discussed. Each day, you will answer 3 multiple choice questions, each of which will be worth 1 point. Up to 2 attempts are allowed to get the full credit. They are **due either Tuesday, Thursday 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 based on. Answer keys to Practice problems will be posted on Canvas four days before each exam.

You are encouraged to join the discussion section that you enrolled in. If you are feeling ill or you should quarantine, you can choose to participate in the section remotely at your place or asynchronously. To make our class more accessible and flexible, you can attend **any discussion section regardless** of your enrollment. It is highly encouraged to join at least one section every week, either in-person or asynchronously, although in-person section attendance will not be graded.

The sections will start **on Week 1, Week of March 28**. Section recordings will be available for those who cannot attend.

4. Weekly Wrap Up questions

By each Saturday starting April 2, 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. Instead, additional worksheets can be assigned. 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.

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 **in your classroom during your class time** on the exam dates. The final exam details 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: <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. SI sessions are facilitated by Peer Leaders who have successfully completed the course at UC San Diego and are trained in facilitating sessions to engage students in active problem-solving and discussion.

SI leader: Jasmine Khatibi (jkhatibi@ucsd.edu)

Schedule: You will be invited to a separate Canvas for SI for detailed information.

- In-Person: Monday, 12:00p-1:20p, TLC 1505 (First meeting will be Monday, April 4th)
- Virtual: Thursday, 1:30p-2:50p, Zoom ((First meeting will be Thursday, March 30th)

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!
- 3 points for **“About Me” one pager**. You can submit a 1-page Google 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 2 **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 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 email or Gradescope to your Instructional Assistants or Dr. Park. 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 | Reading (Posted on Canvas) |
|------|------------|---|------------------------------|
| 1 | Mar 28 (M) | Animal Structure | Chapter 40 |
| | Mar 30 (W) | Animal Structure Digestion & Nutrition | Chapter 40 Chapter 41 |
| | Apr 1 (F) | Digestion & Nutrition | Chapter 41 |
| 2 | Apr 4 (M) | Circulation | Chapter 42 |
| | Apr 6 (W) | Circulation Gas Exchange | Chapter 42 |
| | Apr 8 (F) | Gas Exchange | Chapter 42 |
| 3 | Apr 11 (M) | Nervous System I | Chapter 48 |
| | Apr 13 (W) | Exam 1 (Ch. 40, 41, 42) | |
| | Apr 15 (F) | Nervous System I & II | Chapter 48, 49 |
| 4 | Apr 18 (M) | Nervous System II | Chapter 49 |
| | Apr 20 (W) | Sensory Systems | Chapter 50 |
| | Apr 22 (F) | Sensory Systems Muscle Control | Chapter 50 |
| 5 | Apr 25 (M) | Muscle Control | Chapter 50 |
| | Apr 27 (W) | Kidney Function | Chapter 44 |
| | Apr 29 (F) | Exam 2 (Ch. 48, 49, 50) | |
| 6 | May 2 (M) | Kidney Function | Chapter 44 |
| | May 4 (W) | Plant Hormone | Chapter 39 |
| | May 6 (F) | Plant Hormone Plant Nutrition and Transport | Chapter 39 Chapter 36, 37 |
| 7 | May 9 (M) | Plant Nutrition and Transport | Chapter 36, 37 |
| | May 11 (W) | Plant Development and Reproduction | Chapter 35, 38 |
| | May 13 (F) | Hormone Action | Chapter 45 |
| 8 | May 16 (M) | Hormone Action | Chapter 45 |
| | May 18 (W) | Exam 3 (Ch. 35, 36, 37, 38, 39, 44, 45) | |
| | May 20 (F) | Immune System I | Chapter 43 |
| 9 | May 23 (M) | Immune System II | Chapter 43 |
| | May 25 (W) | Immune System III | Chapter 43 |
| | May 27 (F) | Animal Reproduction | Chapter 46 |
| 10 | May 30 (M) | Holiday - No class | |
| | Jun 1 (W) | Animal Reproduction Animal Development | Chapter 46 Chapter 47 |
| | Jun 3 (F) | Animal Development | Chapter 47 |
| | Exam | Final exam (Cumulative with emphasis on new material) B00: Friday, June 10, 8:00am - 8:50am C00: Wednesday, Jun 8, 9:00am - 9:50am | |

The exam dates are set and will not be changed, so plan your quarter accordingly.

Student Resources for Support and Learning

Learning Resources

[Writing Hub](#)

[Supplemental Instruction](#)

[Content Tutoring](#)

[Learning Strategies Tutoring](#)

Accessibility

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) which is located in University Center 202 behind Center Hall. Students are required to present their AFA letters to Faculty (please make arrangements to contact me privately) and to the OSD Liaison in the department in advance so that accommodations may be arranged.

Contact the OSD for further information: <https://disabilities.ucsd.edu/>.
osd@ucsd.edu | 858. 534.4382

Technical Support

For help with accounts, network, and technical issues:
<https://acms.ucsd.edu/contact/index.html>

[Mental Health Services](#)

Counseling and Psychological Services (CAPS) provides individual, group, couples, and family psychotherapy to registered undergraduate and graduate students. Instructors can contact the **Triton Concern Line** for consultation or concerns about a student. They can also request a training to help identify and work with distressed students.

Office 858-534-3755 | Phone & Crisis: 858-534-3755 | Emergencies: 911

UC San Diego Academic Policies

Academic Accommodations: Students requesting accommodations for this course due to a disability need to provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) which is located in University Center 202 behind Center Hall. Students are required to present their AFA letters to Faculty (please make arrangements to contact me privately) and to the OSD Liaison in the department in advance so that accommodations may be arranged. Please note that instructors are unable to provide accommodations unless they are first authorized by OSD.

Contact the OSD for further information:
858.534.4382 (phone) osd@ucsd.edu(email) <http://disabilities.ucsd.edu>(website)

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 (858) 534-8298, ophd@ucsd.edu, or reportbias.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. 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 | <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. 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 academicintegrity.ucsd.edu.

(Source: Bertram Gallant, T. (2017). Teaching for integrity. UC San Diego Academic Integrity Office.)

Students suspected of academic integrity violations on exams will be invited to Zoom follow-up meetings where they will be asked to (in real time, on video) justify their answers (before the graded exams or solutions are released). If the instructor isn't convinced during the meeting, or the student refuses to participate, they're submitted for academic integrity violations.