
BILD2

Multicellular Life

Fall quarter 2020 M/W/F 1-1:50pm
Instructor: Jiyoung Park <j9park@ucsd.edu>
(Include BILD2 in the subject line of your emails)
Instructor Zoom Office Hours:
M 3-4pm, Tu 2-3p, or by appointment
Zoom Office: <https://ucsd.zoom.us/my/jpark>
Course Website: <http://Cavna.ucsd.edu>

Important Note to Online delivery of this course

- In response to the COVID-19 pandemic, all educational sessions (lectures, discussion sections, etc) will be delivered online. They will be recorded and made available asynchronously on the course website. All assessments (daily review questions, exams, etc) will be given online as well.
- This syllabus is subject to change, particularly because of campus efforts to contain COVID-19. Any schedule changes will be posted on the course website. Make sure to frequently check the website to keep updated.
- Please make sure that you check out this website for resources on how to learn remotely: <https://digitallearning.ucsd.edu/learners/learning-remote.html>
- *I understand this is a challenging time and that issues may arise while accessing the course material, adapting to online-only learning, and taking online exams. My goals are to help you learn the course material, fairly assess your understanding of this material, and grade you accordingly, while keeping these challenges in mind.*

Course Description

An introduction to the physiological processes of diverse multicellular organisms at the systems, tissue, and cellular levels. BILD1, The Cell, serves as a prerequisite for this course.

Overall Course Outcomes

In 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.

Instructional assistants (IAs)

Emily Ton	< enton@ucsd.edu >	Section 01 (M 2:00p-2:50p, Pacific Time)
Anahita Nejatfard	< anejatfa@ucsd.edu >	Section 02 (W 2:00p-2:50p, PT)
Joyce Kim	< jmk003@ucsd.edu >	Section 03 (F 2:00p-2:50p, PT)
Anahita Nejatfard	< anejatfa@ucsd.edu >	Section 04 (F 3:00p-3:50p, PT)

Class Materials and Tools

Required Text:

Campbell Biology 11th, or older editions by Urry, Cain, Wasserman, Minorsky and Reese (Pearson 2016) ISBN 9780134093413 for hardcopy or eBook or 9780134154121 for Looseleaf.

Canvas (Course website):

Go to <http://Canvas.ucsd.edu>, and find BILD2 fall quarter 2020. All course related information including announcements, lecture slides, daily review questions, practice problems and exams will be found on Canvas. It is your responsibility to access to course website regularly to participate classes and discussion sections. Please check the Canvas site and your UCSD e-mail regularly to view announcements, submit assignments, complete assessments, and ensure your grade totals are accurate. No corrections will be made to any grades after the date of the final exam.

Internet access and electronic device:

It is important to have stable internet access and a working electronic device when taking timed exams and review questions. If you encounter any problems with the internet access, please talk to the instructor, so we can find a solution together.

Course Information and Communication

Your instructor will use email as the primary means of communication. Please allow the instructor 24 hours for email replies during weekdays and up to 48 hours during weekends. Please be cordial, respectful, and professional in all email transactions.

Class meetings, office hours and appointments will take place via Zoom webcasting. Aside from one-on-one appointments about personal matters, all Zoom sessions will be recorded and posted to Canvas for other students to view. Questions can-be asked via the chat function in Zoom publicly or privately.

To access all live Zoom sessions, navigate to the following website:

- <https://ucsd.zoom.us/my/jpark>
- The Zoom link embedded with the password will be posted in Canvas.

Grading & Assessments

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 concern regarding to assessments.

Assignment	Points	#	Total points	Percent
Daily Review Questions (Drop the lowest)	3	26	75	19%
Discussion Section Participation	5	10	50	13%
Graded discussion	5	5	25	6%
Exams (Drop the lowest)	80	4	240	62%
Total			390	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.

> 90% A (A+, A or A-)

> 60% C (C+, C or C-)

> 80% B (B+, B or B-)

> 50% D (D+, D or D-)

0. Participation

Since this course is being taught remotely, there will be no on-campus meetings of any kind. In lieu of in-class lectures, course material will be provided as **(1) pre-recorded lectures in Canvas** and **(2) problem solving and Q&A sessions via Zoom on class times (M/W/F 1-1:50pm, Pacific Time)**. Before joining class meetings, students will need to watch the pre-recorded lecture videos assigned each day. It is strongly encouraged to attend synchronous class meetings via Zoom in order to maximize class interaction, though attendance is not required. **Class meeting recordings will also be available** in Canvas for those who cannot attend on time. Students will be required to take daily questions and exams by due dates specified in Canvas.

If you have concerns or questions about the material, the instructor will be also available to assist, during **online office hours, via Q&A board in Canvas, via email, or by scheduling an appointment**. If an extended illness or circumstance affects your performance in class, please consult the instructor immediately.

1. Review Questions

After reviewing the lecture materials and recordings for each lecture, students will need to complete review questions to test their understanding of the concepts that were discussed. Each set of questions will be worth 3 points and due the day after the class meeting. The lowest one will be dropped from the final grade.

2. 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. Practice problems will be posted on Canvas. The first sections will be on **Friday, October 2nd, Monday, October 5th or Wednesday, October 7th**. You could earn the Discussion section Participation points by attending each section and by actively participating in section. Recordings will also be available in Canvas for those who cannot attend on time.

3. Graded Discussions

While the information presented in this course from your textbook is mostly up to date, scientific advances in biology occur every day. Throughout the semester, you will be required to review biology news articles or research papers and present recent findings to your peers in the form of graded discussions on Canvas. You will participate 5 discussions throughout the semester, each worth 5 points.

4. Exams

Exams are designed to facilitate applying knowledge to solve novel problems in a scientific way. There will be **three exams** and a **cumulative final exam** throughout the duration of the course. All exams will be worth 80 points, and the lowest one will be dropped from the final grade. Questions could be in various formats, including multiple choice and written questions. Each exam except the final exam will cover information from previous lectures since the last exam. Materials presented in lecture slides, video recordings, discussion sections, and additional readings can be covered. Exam questions will be also based on review questions and practice problems.

Exams must be taken in **Canvas within the 70-min period between 1 pm and 2:10 pm Pacific Time on the date** specified in the syllabus. However, once you begin the exam, you will have **50 minutes** to complete it. Please communicate with the instructor, if you are not able to take exams within this time period, because you are in different time zones.

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 a **verifiable, unplanned emergency** happens that prevents you from taking the exams on time, you **MUST** notify the instructor of the problem by e-mail as soon as it is reasonable to do so. Contact the instructor immediately to discuss your best options given your circumstances.

Class schedule (*subject to change)

Week	Date	Lecture	Reading (Posted on Canvas)
1	Oct 2	Animal Structure	Chapter 40
2	Oct 5	Animal Structure Digestion & Nutrition	Chapter 40 Chapter 41
	Oct 7	Digestion & Nutrition	Chapter 41
	Oct 9	Circulation	Chapter 42
3	Oct 12	Circulation Gas Exchange	Chapter 42
	Oct 14	Gas Exchange	Chapter 42
	Oct 16	Midterm 1 (Ch. 40, 41, 42)	
4	Oct 19	Kidney Function	Chapter 44
	Oct 21	Kidney Function	Chapter 44
	Oct 23	Nervous System I	Chapter 48
5	Oct 26	Nervous System I & II	Chapter 48, 49
	Oct 28	Nervous System II	Chapter 49
	Oct 30	Sensory Systems	Chapter 50
6	Nov 2	Sensory Systems Muscle Control	Chapter 50
	Nov 4	Muscle Control	Chapter 50
	Nov 6	Midterm 2 (Ch. 44, 48, 49, 50)	
7	Nov 9	Plant Hormone	Chapter 39
	Nov 11	NO CLASS	
	Nov 13	Plant Hormone Plant Nutrition and Transport	Chapter 39 Chapter 36, 37
8	Nov 16	Plant Nutrition and Transport	Chapter 36, 37
	Nov 18	Plant Development and Reproduction	Chapter 35, 38
	Nov 20	Plant Development and Reproduction Hormone Action	Chapter 35, 38 Chapter 45
9	Nov 23	Hormone Action	Chapter 45
	Nov 25	Midterm 3 (Ch. 35, 36, 37, 38, 39, 45)	
	Nov 27	NO CLASS	
10	Nov 30	Immune System I	Chapter 43
	Dec 2	Immune System II	Chapter 43
	Dec 4	Immune System III	Chapter 43
11	Dec 7	Animal Development	Chapter 47
	Dec 9	Animal Development Animal Reproduction	Chapter 47 Chapter 46
	Dec 11	Animal Reproduction	Chapter 46
	Dec 14	Final Exam (Cumulative)	

The exams 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\(website\)](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.