

## BILD1 - The Cell (Summer Session I)

Instructor: Amanda Davis

---

**Welcome to BILD1 - “The Cell”!** During this 5-week summer course, you will be introduced to the core concepts of cellular and molecular biology. We will explore: biological molecules, cellular structure, bioenergetics, genetics, and molecular biology. This class will provide a solid foundation as you take additional courses and build upon your knowledge of biological systems. My hope is that you will enjoy and appreciate how biology is incredibly relevant to our everyday lives.

**Email:** [ascholl@ucsd.edu](mailto:ascholl@ucsd.edu) (include BILD1 in the subject line)

**Office Location:** York Hall 3010

**Office Hours:** Tuesday and Wednesday 11:00a-12:00p

**Class Time/Location:** M/Tu/W/Th from 9:30a-10:50a in CSB 002 (Cognitive Science Building)

*(Note: We will not have class on Wednesday 7/4, which is a university holiday.)*

**Contacting me:** If you are able, please try to attend my office hours if you have any questions. It is much easier to explain concepts in person than over email. If you need to send me an email, please include “BILD1” in the subject line and allow 24 hours for me to reply. If I have not replied in 24 hours, please send the email again.

### Discussion Sections:

Tuesday	11:00a-12:50p	CENTR 207
Wednesday	2:00p-3:50p	CENTR 207
Thursday	11:00a-12:50p	CENTR 207

### Instructional Assistants:

Katherine Liu

[thl062@ucsd.edu](mailto:thl062@ucsd.edu)

Jacynda Laferriere

[jlaferri@ucsd.edu](mailto:jlaferri@ucsd.edu)

*(Office hour information can be found on TritonEd.)*

**Learning Outcomes:** By the end of our course, students will be able to...

1. Connect the structure of each organelle in the cell to its function in maintaining a healthy cellular environment.
2. Diagram the flow of energy production and consumption by a cell.
3. Outline how biological information is stored, inherited, and utilized.
4. Give experimental evidence that supports our understanding of biological concepts and predict the outcome of experiments based on current knowledge.
5. Collaborate respectfully with peers to generate and refine ideas.
6. Appreciate the relevance and application of cellular and molecular biology to our lives.

**TritonEd:** All relevant course material (powerpoints, quizzes, answer keys, additional helpful resources, etc.) will be posted on TritonEd. Go to <http://triton.ed.ucsd.edu> and click on Davis [S118]. Please check our class page and your email regularly for updates.

### Required Learning Materials:

*Campbell Biology (11<sup>th</sup> edition)* by Urry, Cain, Wasserman, Minorsky and Reese (Pearson 2017)  
A few copies of the textbook are reserved in the library.

**iClickers:** An iClicker is required for this course and can be purchased at the university bookstore. The frequency of this class is BB. Please register your clicker by Monday 7/9 through the TritonEd class website. Clicker participation will be counted starting on Thursday, 7/5.

**Basis for Final Grade:** Grading for this course is on a straight point scale, meaning that everyone has the opportunity to earn an A. You are not competing with your classmates, so work together! Your peers are a fantastic resource for you to learn class material. Your grade will be calculated based on the following breakdown:

Participation	10%
Online Quizzes	15%
Midterm Exam	35%
Final Exam	40%

**Grading Scale:** I reserve the right to adjust this scale, but any changes will always work in your favor. I will NOT make the class more stringent than below.

>93%	A	77-80%	C+
90-93%	A-	73-77%	C
87-90%	B+	70-73%	C-
83-87%	B	60-70%	D
80-83%	B-	<60%	F

**Online Quizzes:** There will be 3 graded quizzes during the quarter, administered through TritonEd. These quizzes will be worth 15% of your final grade. The purpose of these quizzes is to assess your understanding of material and prepare you for the midterm and final exams. You will have the opportunity to take each quiz twice. So if you are unhappy with how you did the first time through, read the relevant sections of your textbook and look back through your notes before trying again. I will announce when quizzes are posted in class and/or via email.

**Exams:** There will be two exams during the course - a midterm and a final exam. Exams must be taken during the dates/times listed below, so please plan your summer accordingly. The midterm exam will cover material from topics 1-7. The final exam will be cumulative, but with an emphasis on material from topics 8-16 and our in-class paper discussion.

Midterm Exam: Monday, July 16, 2018 9:30a-10:50a (CSB 002; during normal class time)

Final Exam: Friday, August 3, 2018 8:00a-10:59a (Location TBA)

**Regrade Policy:** If you believe a mistake has been made in the grading of your exam, please submit the exam for a regrade. This only applies to exams written in non-erasable ink with no correction tape. Midterms will be handed back during class time and regrades must be submitted prior to leaving class. If you leave with an exam, it is no longer eligible for a regrade. If you do not have time to completely review your exam during the specified class time, you may turn your exam back in and attend office hours to view your exam again and ask for a regrade. The final exams will not be handed back, but can be viewed during special office hours the week after the final. Regrades may be submitted during these office hours.

**Podcasting:** All lectures will be podcasted. You can access these podcasts at <https://podcast.ucsd.edu/>

**Participation:** The best way to be successful in this course (and truly any course you take) is to pay attention in class and take advantage of opportunities to actively engage with course material. There are numerous, quantitative studies that carefully show how active engagement improves student learning. In light of this research, class periods will not consist solely of lecture. Instead, lecture time will be broken up into segments interspersed with iClicker and collaborative discussion questions. My expectation is that if you are in class, you will engage in these activities and take advantage of these opportunities to practice applying your knowledge. Importantly, I have designed these participation activities to specifically prepare you for exams. Your level of participation will be assessed based on the following:

- ~ iClicker usage - 1 point will be given for each class period where you clicked answers to >75% of the questions. Credit is not assessed based on correctness of answers.
- ~ Discussion section attendance - 1 participation point will be given for attendance at your discussion section and 1 point will be given for attempting to complete discussion section problem sets ahead of time (discussion sections will start in week 2)
- ~ Week 1 Intro Survey - In the first week of the course, there will be a survey posted on TritonEd that will serve as a practice quiz for future graded quizzes. 2 points will be awarded for completion of the survey.
- ~ Paper Discussion Pre-Quiz - In the final week of the course, we will be doing an in-class activity based on a primary research article. You are expected to read the article ahead of time and do your best to complete a quiz (posted on TritonEd). 2 points will be awarded for completion of the quiz, not correctness of your answers.
- ~ \*\*CAPE Evaluations - 2 extra credit participation points will be awarded to every student if >90% of the class submits CAPE evaluations at the end of the course.

I understand that unexpected situations may arise that force you to miss a class period or discussion section. Additionally, it may happen that you forget to bring your iClicker to class. There is no need to worry about these unforeseen situations. You only need to get 85% of the possible participation points to receive full participation credit.

**Mobile Devices / Laptop Usage:** The use of laptop computers and tablets during class are permitted for use in taking notes and providing electronic feedback when prompted. I kindly request that cell phones be put away during class time, except for when electronic feedback is requested and a laptop or tablet is not available. Please respect your peers and me as your instructor by staying focused and refraining from web browsing, social media, gaming, etc. during class time. Responsibility and professionalism with regards to your electronic devices is an important skill and behavior required of adults in career-related settings.

**Disability Access:** 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). Students are required to present their AFA letters to faculty and to the departmental OSD Liaison in advance so that accommodations can be arranged.

Contact the OSD (University Center 202) for further information:

858.534.4382 (phone)

[osd@ucsd.edu](mailto:osd@ucsd.edu) (email)

<http://disabilities.ucsd.edu> (website)

**Academic Integrity:** Students are expected to do their own work, as outlined in the UCSD Policy on Academic Integrity <https://academicintegrity.ucsd.edu/process/policy.html>. Cheating will never be tolerated. I will fail anyone caught cheating and report the student to the Office of Academic Integrity.

**Title IX Compliance:** UC San Diego is committed to the respect, protection, and dignity of all people. As such, sexual abuse (physical or psychological) is never tolerated. If you have been the victim of sexual misconduct, we encourage you to report the matter to the Office for Prevention of Harassment and Discrimination (OPHD). As a member of the UCSD community, I am also an advocate for the safety and respect of all individuals. If I witness or hear of any sexual misconduct, I am not a confidential resource and am required to report the incident to the OPHD. If you are not yet ready to report the matter, you can receive confidential help through CARE at the Sexual Assault Resource Center (CARE at SARC) at (858) 534-5793, <https://students.ucsd.edu/sponsor/sarc/> or Counseling and Psychological Services (CAPS) at (858) 534-3755, <https://caps.ucsd.edu/>.

The OPHD is the Title IX Office for UC San Diego and investigates reports of sexual harassment, sexual violence, dating and domestic violence and stalking. You may file a report online with the UC San Diego (OPHD) at <http://ophd.ucsd.edu/report-bias/index.html> or call OPHD at 858-534-8298. For further information about OPHD, please visit <http://ophd.ucsd.edu/>.