

Welcome to BILD1- The Cell!

| Week | Monday lecture | Wednesday lecture | Friday lecture |
|------|---|--|---|
| 0 | | | Sep 24 Class intro |
| 1 | Sept 27 The chemical content of life Ch. 2 | Sept 29 Inorganic compounds Ch. 3 | Oct 1 Organic compounds Ch.4 |
| 2 | Oct 4 Macromolecules I Ch. 5 | Oct 6 Macromolecules II Ch. 5 | Oct 8 Bioenergetics Ch. 8 |
| 3 | Oct 11 Enzymes Ch. 8-9 | Oct 13 Cellular respiration Ch. 9 | Oct 15 Exam 1 |
| 4 | Oct 18 Photosynthesis Ch. 10 | Oct 20 Organization of the cell I Ch. 7 | Oct 22 Organization of the cell II Ch. 7 |
| 5 | Oct 25 Membrane structure & function Ch. 7 | Oct 27 Membrane structure & function II Ch. 7 | Oct 29 Cell Signaling Ch. 11 |
| 6 | Nov 1 Cell Cycle/Cancer Ch. 12 | Nov 3 Mitosis Ch. 12 | Nov 5 Exam 2 |
| 7 | Nov 8 Meiosis Ch. 13 | Nov 10 Mendelian genetics I Ch. 14 | Nov 12 Mendelian genetics II Ch. 14 |

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|------|---|--|--|
| 8 | Nov 15 Chromosomal basis of inheritance I Ch. 15 | Nov 17 Chromosomal basis of inheritance II Ch. 15 | Nov 19 DNA replication Ch. 16 |
| 9 | Nov 22 RNA Ch. 16-17 | Nov 24 Transcription Ch. 17 | Nov 26 Thanksgiving Holiday |
| 10 | Nov 29 Translation Ch.17 | Dec 1 Regulation of gene expression Ch. 18 | Dec 3 FINAL REVIEW |

****Final Exam: Tuesday Dec 7, 3PM**

BILD1- The Cell
Fall 2021
Lectures (PCYNH 106): MWF 4:00 PM - 4:50 PM

Instructor: Stephanie Alfonso, PhD
Office Hours: Wed at noon in CSB 255
salfonso@ucsd.edu

I will do my best responding to emails that require short answers. For questions that require explanations or urgent answers, please see me in my office hours—I am more than happy to answer your questions then.

| IA/TA | Section & OHs |
|---|--------------------------|
| Karen William <kaw092@ucsd.edu> | W 6 & 7 PM |
| Mehreen Manikkoth <mmanikko@ucsd.edu> | M 10 AM |
| Sahithi Yeturu <syeturu@ucsd.edu> | M 8 AM |
| Ba Nguyen <nnguyenb@ucsd.edu> | W 8PM |

Course Description:

An introduction to cellular structure and function, to biological molecules, bioenergetics, to the genetics of both prokaryotic and eukaryotic organisms, and to the elements of molecular biology. Recommended preparation: prior completion of high school- or college-level chemistry course.

Course Materials and Tools:

Recommended textbook
Campbell Biology, 11th edition by Urry, Cain, Wasserman, Minorsky and Reece, Pearson Education Inc.

Class website: Canvas

How the course will be taught

Sections serve as an opportunity to get clarification on topics covered in lecture. All lecture slides will be posted on the website and are available for download.

Grading Information:

| Category | % of Grade |
|-----------------|-------------------|
| Exams X 2 | 50 |
| Final Exam | 50 |
| | 100 |

There are +/- awarded and the instructor determines if a curve is needed at the END of the course when calculating everyone's final grade.

Exams:

Will be available at the day scheduled and will have a time limit. There will be two noncumulative exams (during regular class days) and one comprehensive Final exam. Students must complete exams independently (no partners or teams). The exams are a combination of multiple choice and free response questions and all lectures are represented fairly equally. Make-up exams will only be offered to students who have extenuating circumstances such as a medical or family emergency (subject to instructor approval).

Final Exam – 12/07/2021 Tuesday

Extra Credit:

Attending 7/10 of your assigned discussion sections, will you give your final grade an extra 2% points. In addition, extra credit opportunities are available within some assessments.

Academic Integrity:

Cheating and plagiarism will not be tolerated. For more information regarding the definition and consequences of cheating, please consult the following university resource on academic integrity <https://students.ucsd.edu/academics/academic-integrity/index.html>.

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) 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:

858.534.4382 (phone)

osd@ucsd.edu (email)

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

Title IX Compliance:

The Office for the Prevention of Harassment & Discrimination (OPHD) provides assistance to students, faculty, and staff regarding reports of bias, harassment, and discrimination. OPHD is the UC San Diego Title IX office. Title IX of the Education Amendments of 1972 is the federal law that prohibits sex discrimination in educational institutions that are recipients of federal funds. Students have the right to an educational environment that is free from harassment and discrimination.

Students have options for reporting incidents of sexual violence and sexual harassment. Sexual violence includes sexual assault, dating violence, domestic violence, and stalking. Information about reporting options may be obtained at OPHD at (858) 534-8298, ophd@ucsd.edu or <http://ophd.ucsd.edu>. Students may receive confidential assistance at CARE at the Sexual Assault Resource Center at (858) 534-5793, sarc@ucsd.edu or <http://care.ucsd.edu> or Counseling and Psychological Services (CAPS) at (858) 534-3755 or <http://caps.ucsd.edu>.

Students may feel more comfortable discussing their particular concern with a trusted employee. This may be a faculty member, department Chair, or other University official. These individuals have an obligation to report incidents of sexual violence and sexual harassment to OPHD. This does not necessarily mean that a formal complaint will be filed. If you find yourself in an uncomfortable situation, ask for help.

Health and Well-being:

Throughout your time at UC San Diego, you may experience a range of issues that can negatively impact your learning. These may include physical illness, housing or food insecurity, strained relationships, loss of motivation, depression, anxiety, high levels of stress, alcohol and drug problems, feeling down, interpersonal or sexual violence, or grief.

These concerns or stressful events may lead to diminished academic performance and affect your ability to participate in day-to-day activities. If there are issues related to coursework that are a source of particular stress or challenge, please speak with me, [Professor's Name], so that I am able to support you. UC San Diego provides a number of resources to all enrolled students, including:

Counseling and Psychological Services (858-534-3755) | caps.ucsd.edu)

Student Health Services (858-534-3300) | studenthealth.ucsd.edu)

CARE at the Sexual Assault Resource Center (858-534-5793 | care.ucsd.edu)

The Hub Basic Needs Center (858-246-2632) | basicneeds.ucsd.edu)

We care about you at UC San Diego, and there is always help available.

How to succeed in this class

Serious engagement with the material will lead to significantly higher gains in class. Be proactive, reach out and get help! If you are having trouble with any part of the course material, talk to me or the IA and come to our office hours. Please don't wait! We care about the success of each and every student and we want to help.

Critical thinking is hard. Work with your classmates or form a study team, and put your collective intelligence to work. Don't be discouraged if you don't understand everything: you are here to learn. Plan ahead. If you anticipate that you'll need help with assignments or with exam prep, allow yourself enough time to attend office hours and get your questions answered. Attend classes and sections. It takes time to build up knowledge and skills, don't leave it to the last minute. Cramming the night before the exam will not work in this class.

Good luck! We want all of you to succeed