

BILD 1

Fall 2020

Dr. Stephanie Mel

smel@ucsd.edu

Course meets: Monday, Wednesday, Friday 10 – 10:50 AM on Zoom

Discussion Sections: Sections begin **Monday October 5** during **week 1**

Mel Office Hours: Wednesdays 11 AM – 12 PM or by appointment

Text: Recommend Campbell Biology, 11th or 12th Edition. To be successful in this class, it is important that you have access to a text. The majority of figures that I use in the class are from Campbell Biology. (You can use an earlier edition of the Campbell Biology book but you are responsible for checking on content differences). Many other Introductory Biology books contain similar material and much of it is also available online. Mastering Biology is not required.

Other Books/Recommended Texts: If you love cell and molecular biology and want to have a book or books that focus on this topic, these two are excellent choices. Essential Cell Biology 5th Edition by Alberts et al. (Norton Publishing, 2019). Essential Cell Biology is at approximately the same level as BILD 1. A more advanced version: Molecular Biology of the Cell 6th Edition by Alberts, Johnson, Lewis, Morgan, Raff, Roberts, Walter (Garland Publishing, 2015) is also an outstanding book though is now a little bit out of date and will therefore be missing some material.

Canvas: All information related to the course will be posted on Canvas. Please check Canvas regularly for announcements and updates and check your **UCSD email!** **You can access Canvas either by going to canvas.ucsd.edu or coursefinder.ucsd.edu**

Zoom Lecture and Section Recordings: All lectures and section meetings will be recorded and posted on Canvas as soon as they are available.

Instructional Assistants: Names, sections, and contact information are posted on Canvas

Discussion Sections: IAs will hold weekly discussion sections. They will review material for the quizzes and go over problem sets.

How to earn points in the class:

15% of grade: Post-Lecture questions - After each lecture you will have 48 hours to complete several post-lecture questions online. You can drop your 3 lowest scores. These will start during week 1.

40% of grade: Quizzes - There will be 5 quizzes total. You can drop your lowest quiz score so I will count your 4 highest scores only. Quizzes will be on Canvas and will be available during a window of time.

30% of grade: Final – will be cumulative. You can replace your lowest quiz score (of the 4 that will count) with your final exam score if the final exam is higher.

15% of grade: Participation (or independent alternative) There will be a number of problems and exercises throughout the quarter to help you better understand the

material. The IAs will be going over these in section. The problem sets will not be graded for correctness but if you make a serious attempt to do the problems and you attend section, you will earn 2 points each week. If you are not able to attend your section, an alternative is to attend one of the IA office hours to work on these exercises – you can also earn 2 points each week this way. Finally, if you are in a different time zone or have another reason why you can't attend section, you can turn in your (serious) problem set attempts for full credit. You will also get participation credit for filling out surveys. You only need to earn **50% of the possible points to get full credit for "Participation"**. If you earn less than 50% of the possible points, your score will be that percent of the 15%.

Extra Credit: There will be ways to earn extra credit including finding and summarizing science related news articles, and/or writing a utility value assignment. Details will be announced in class.

HOW TO BE SUCCESSFUL IN THIS CLASS!

First: Come to class if possible, listen carefully, and take notes, Keep track of what you DID NOT understand (split page notes work well for many students).

As soon as you can after class: Go over your notes; re-write if necessary, and use the recording. This will help you figure out what you did and did not understand from lecture. Make a list of the things you do not understand and then go to the textbook to read the sections associated with that material. The Internet can also be a great resource, but make sure you are using reputable sites.

Find study partners, quiz each other, and attend section and office hours. Do all the problem sets/assignments. Ask questions! If you have to miss a class, get notes from another student and take advantage of the text and recordings to fill in gaps. You will be tested only on the material that I cover in class though it is essential to use the book as a resource.

****Be sure to be familiar with the FIGURES that I show in class, and read the associated material in the text.* I will NOT test you on material that is in the book that I don't cover in class.***

Grades: Grading in this course is on a straight percent scale so in theory, every single person could get an A in the course. You are not competing with one another for grades, so work together!

A range	>90%
B range	80% - 89.9%
C range	70% - 79.9%
D	60% - 69.9%
F	below 60%

OSD Students: Students requesting accommodations for this course need to provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD). Please get the letter to me as soon as possible so

arrangements can be made. For more information, contact the OSD at (858) 534-4382 (V); (858) 534-9709 (TTY); osd@ucsd.edu, or <http://osd.ucsd.edu>.

Contacting me: email is the best way to reach me and I will do the best I can to get back to you within one day, but am occasionally delayed even longer than that. If you have an urgent matter than needs immediate attention, please **URGENT** in **BOLD** in the subject line. Any email correspondence related to BILD 1 should also have BILD 1 in the subject line.

Administrative Questions: Division of Biological Sciences Student and Instructional Services (SIS) office in 1129 Pacific Hall. Add/drop, advising, major questions etc. <http://www-biology.ucsd.edu/administration/sis/index.html>

Academic Integrity: Integrity of scholarship is essential for an academic community. The University expects that both faculty and students will honor this principle and in so doing protect the validity of University intellectual work. For students, this means that all academic work will be done by the individual to whom it is assigned, without unauthorized aid of any kind. Cheating will not be tolerated; any student engaged in academic dishonesty will be failed. All academic integrity cases will be immediately turned over to the campus Academic Integrity Office.

Below is the planned order of topics, though it is subject to some change. I will announce any changes well in advance.

Topic	Material found in these chapters
Introduction/Small Molecules/Bonds/Chemistry of Life	1,2,3,4
Macromolecules	5
Cell Structure/Organization/Membrane Structure and Function	6,7
Bioenergetics/Enzymes	8
Cellular Respiration	9
Photosynthesis	10
Cell Signalling	11
Cell Cycle/Cancer/Mitosis	12, Concept 18.5
The Molecular Basis of Inheritance	16
From Gene to Protein	17
Gene Regulation	18
Meiosis	13
Mendelian Genetics	14
Chromosomal Basis of Inheritance	15
Viruses, DNA Technology, Genomes	19, 20, 21

NOTE: I will NOT cover all material in each chapter. The only material in the book that you are responsible for is that which I go over in class. But in order to succeed in this class you need to use the book as a resource! Focus on reading the material that corresponds with the figures from the book that I show in class. Enjoy the class!