BICD110: Cell Biology Summer II 2019

This is an upper division course on structure and function of a eukaryotic cell. Lectures will cover: methods of cell biology research, membrane structure and dynamics, protein synthesis and sorting, cytoskeleton structure and dynamics, and the cell cycle.

Instructor Dr. Emily Petty (elpetty@ucsd.edu)

Lectures Monday and Wednesday 11:00 AM-1:50 PM Peterson 104

Office Hours Thursdays 2:30 - 3:30 PM Pacific Hall 3501

Instructional Assistant: Kevin Nguyen - khn031@ucsd.edu

Material The class web site is on Canvas (http://canvas.ucsd.edu). All class notices, the syllabus, and PDFs for section problem sets will be posted here. Please check the web site regularly for updates, since this will be the main form of distribution of information to the class. The lecture slides will be posted to the site after lectures, and the course will be podcasted.

Textbook Molecular Cell Biology (8th Edition, Lodish et al). Recommended, *not required*.

An eBook is available as a purchasing option for this course. You can access this eBook by clicking the *RedShelf tool* within TritonEd. If you opt-in to this eBook by clicking the *Opt-in Now* button your student account will be charged directly. You will also receive an email with the exact amount of this charge. Within the add/drop period you may also opt-out of this option if you decide you'd rather use an alternate format.

Grades There will be one mandatory midterm and a comprehensive final exam. You have the choice of the following grading scheme:

Midterm (mandatory)	40%
Final exam, cumulative	50%
Participation	10%

Final exam, cumulative	90%
Participation	10%

This means that there are **NO MAKE UP EXAMS**. In order to ensure that everyone has a chance at getting a grade that reflects the effort that they put into the class, the grading will be on a straight percentage basis. The top 5% of scores will be normalized

to the next highest score. That score will be used to calculate grades using the following distribution:

100-97	A+
96.5-91.5%	A
91.5-87.5%	A-
87.5-83%	B+
83-79%	B
79-75%	B-
75-70.5%	C+
70.5-66.5%	C
66.5-62.5%	C-
62.5%-50%	D
50-0%	F

Using this system there is no upper limit to the number of A's in the class as there is when a standard curve is used.

Problem Sets This course covers a lot of different concepts, and requires you to understand them and apply them. To help achieve this, problem sets will be assigned and turned in for participation credit at the end of each discussion section. Problem sets will be posted on the class web site by the morning of lecture/discussion. The questions will refer to material covered in class and section, and **will often mimic those given on exams**. Students who take the time to do these problems regularly (*i.e.* not wait until right before an exam) are virtually guaranteed to be ready to perform well on the exams.

Participation: Attendance in lecture and discussion is expected. iClicker questions will be asked (randomly) in lectures. Please register your iClicker in Canvas. Participation during discussion will also be noted. The 10% of participation will come from iClicker answers and from problem sets during discussion. No makeup for problem set credit or iClicker questions will be given.

Regrade Policy: The purpose of regrades is to protect you from potential mistakes. Requests for regrades must be submitted in writing with a description of the grading error along with your original exam within one week of the exam return date. Please be advised that exams will be photocopied before they are returned to you. Thus, do not alter ANYTHING on an exam for which you are submitting for re-grading. Any inconsistencies will be considered a breach in academic honesty and will be grounds for failure of the course. You can personally deliver these documents to Dr. Petty during her office hour.

Email etiquette: Before e-mailing, consider carefully whether your question might be already answered in the syllabus, or whether it is best to ask your question in person during office hours. For example, it is not possible to effectively e-mail about concepts that require drawings or demos. If you send an email, make sure to **include BICD 110**. You must send your email from your UCSD address; please make clear who you are. As always, a well-written and professional e-mail greatly increases the likelihood that you will get a response in a timely manner.

Adds/Drops/Withdrawals: Use TritonLink to add into open sections, to waitlist a full section, or to drop the course.

Special Circumstances: Please communicate special needs, including those based on medical conditions or religious beliefs, as soon as possible. These needs will be taken into account only after they have been discussed with the professor. Students with disabilities are given my full support as long as you work through the Office for Students with Disabilities. Excusal from an exam will be granted by the professor only if proper documentation is provided (e.g., from medical/law- enforcement professionals). ***No rescheduling or make-up exams are allowed***, except as noted in: http://www.ucsd.edu/catalog/front/AcadRegu.html

Students with disabilities: If you have been given an Authorization for Accommodation (AFA) letter from the Office of Students with Disabilities (OSD), you must provide the instructor, and the OSD Liaison Lindsay Ward with a copy of the letter before any accommodations will be provided. All exam scheduling will be coordinated by you and the instructor, with involvement from the OSD Liaison as needed. In order to guarantee accommodations, you must follow the guidelines established by the Instructor and/or Liaison. OSD exams will run concurrently with the scheduled exam.

Aid &Collaboration: You are encouraged to work together and form discussion groups to learn all aspects of cellular biology. However, collaboration or aid on exams is strictly prohibited unless told otherwise.

Academic Integrity: DO NOT CHEAT. All submitted work must be your own. This includes all exams and in-class assignments. Please read the UCSD Policy on Integrity of Scholarship, at:

http://senate.ucsd.edu/manual/Appendices/Appendix2.pdf

All violations of academic integrity that are noticed by me will be sent to the Office of Academic Integrity without exception. ***If you cheat, you can expect an F for the entire quarter, not just the exam/assignment in question***.

Classroom etiquette in lectures and discussions: The following rules are aimed to keep our classroom environment focused on the task at hand for you and your peers. You know these basics already:

- Please arrive on time to lecture and
- Reading newspapers etc., is not
- All phones must be off during lectures, discussions, and
- Phones/tablets/computers/ must be out of sight during exam periods. **The bottom line is that we will be considerate of one another at all times in lectures and in the**

Schedule: The schedule below is **tentative** and will vary to make sure that you learn all the key concepts in cell biology.

Lecture	Date	Topics
1	8-5	Introduction; Methods in Cell Biology
		Reading: Lodish Ch 1, 4, 7
2	8-7	Membrane Biochemistry; Membrane Transport of Small Molecules/Ions; Endocytosis
		Reading: Lodish Ch. 11, 14
3	8-12	Protein Sorting; Secretory Pathway I
		Reading: Lodish Ch .13, 14
4	8-14	Secretory Pathway II
		Reading: Lodish Ch. 14

5	8-19	Midterm (in class, mandatory)
6	8-21	The Nucleus; Signal Transduction I
		Reading: Lodish Ch 15, 16
7	8-26	Signal Transduction II
		Lodish Ch: 16
8	8-28	Cytoskeleton
		Reading: Lodish Ch. 17, 18
9	9-2	Labor Day – no class or discussion
10	9-4	Cell Cycle
		Reading: Lodish Ch. 19
	9-5 or 9-6	Tentative extra review session
	Sat. 9-7	*FINAL - 11:30-2:30p location TBA*