BILD1: The Cell

INSTRUCTOR: Gulcin Pekkurnaz, Ph.D.
LECTURES: MWF 9:00 - 9:50pm MOS 0113

DATE		LECTURES	READING
Sept	**23**	(1) Introduction and course overview	
	26	(2) Chemical Basis of Life	Chapters 2-4
	28	(3) Small Molecules	Chapters 4-5
	30	(4) Macromolecules	Chapters 4-5
Oct	**3**	(5) Enzymes	Chapter 8
	5	(6) Enzymes and Metabolism	Chapters 8-9
	7	(7) Bioenergetics	Chapters 8-9
	10	(8) Cellular Respiration	Chapter 9
	12	(9) Photosynthesis	Chapter 10
	14	**MIDTERM EXAM 1 (Lectures 1-9)**	
	17	(10) Cellular Architecture	Chapter 6
	19	(11) Intracellular Organelles	Chapters 6-7
	21	(12) Intracellular Organelles and membrane	Chapter 7
	24	(13) Membrane Structure and Function	Chapter 7
	26	(14) Cell Communication	Chapter 11
	28	(15) Cell Cycle/Mitosis/Cancer	Chapter 12 and 18 (concept 18.5)
	31	(16) Mitosis/Cancer	Chapter 12
Nov	**2**	(17) Meiosis/Development	Chapter 12
	4	(18) Mendelian Genetics	Chapters 12-13 and 18 (concept 18.4)
	7	(19) Chromosomes	Chapters 14-15
	9	**MIDTERM EXAM 2 (Lectures 10-17)**	
	11	***Veterans Day Observance* (No lecture)**	Chapter 14
	14	(20) Chromosomes and Heredity	Chapter 15
	16	(21) Inheritance and Molecular Genetics	Chapters 15-16
	18	(22) DNA/ DNA Replication/ Transcription	Chapter 16-17
	21	(23) Transcription/ Translation	Chapter 17
	23	(23) Transcription/ Translation	Chapter 17
	25	***Thanksgiving Holiday* (No lecture)**	
	28	(24) Gene Expression Regulation	Chapter 18
	30	(25) Genome Evolution	Chapter 21
Dec	**2**	(26) Biotechnology and course closure/review	Chapter 20
	07	**FINAL EXAM (Comprehensive)**	**8:00-11:00am**

GENERAL INFORMATION:

Regardless of vaccination status, all students must wear a mask or face covering during the class. A face covering/face mask DOES NOT include a scarf, ski mask, balaclava, bandana, gaiter, turtleneck, collar, plastic face shield, or a single layer of fabric. For proper use, the face covering **must cover both the nose and mouth**.
https://returntolearn.ucsd.edu/return-to-campus/campus-repopulation/index.html

Contact:

Professor: Dr. Gulcin Pekkurnaz (gpekkurnaz@ucsd.edu)
Office Hours: Office hours and the location will be posted on Canvas.

The best way to contact me is by e-mail **(gpekkurnaz@ucsd.edu)**. Please remember to include **BILD1** in the subject line.

Teaching and Instructional Assistants (TA and IAs):

TA	Vo, Pham Thuy Tien	ptvo@ucsd.edu
IA	Yu, Ariane	yiy033@ucsd.edu
IA	Guo, Jing	jig001@ucsd.edu
IA	Tran, Nathan Le	nltran@ucsd.edu
IA	Wong, Flora Suk-Man	fswong@ucsd.edu
IA	Zheng, Tingwen	tizheng@ucsd.edu

TA/IA Office Hours: Office hours and the location will be posted on Canvas.

Required text book:
Campbell Biology, 11th edition by Urry, Cain, Wasserman, Minorsky and Reece, Pearson Education Inc.
Please cross check the content if you plan to use the earlier editions of Campbell Biology.
Your best reference will be the lecture notes and slides.

Grading:

Assignments	30%
Midterm exam 1 or 2	35%
Final exam	35%

The class is graded on a curve. The highest midterm grade will be used to calculate your grade.
** 80% of class attendance throughout the course will bring extra 10 points for everybody!

Lecture Notes:
A pdf of lecture the notes will be posted on Canvas immediately before the lectures. Lectures will be based on the **Campbell Biology, 11th edition** text book. However, essential material will be presented in the class. Attending lectures is key to mastering the material! Lectures will be recorded and posted on Canvas.

If you have questions concerning how to access course materials on Canvas, please contact Academic and Computing Services: http://acms.ucsd.edu/.

Remote Discussions:
Remote discussion sessions will start the week of **October 3rd**. There will be **no discussion sessions during the first/second week**. Be sure to attend discussion sessions as they will provide opportunity to ask questions about the lecture material and assignments in a smaller group setting with an IA/TA. Students can only attend the section in which they're enrolled in for the assignment days. Attendance will be evaluated.

** Discussion attendance throughout the course will bring extra 20 points to your final exam!
Discussion schedule:

B01	Mon	8:00 AM	8:50 AM	HSS	1128A
B02	Mon	2:00 PM	2:50 PM	WLH	2115
B03	Tue	7:00 PM	7:50 PM	WLH	2206
B04	Tue	8:00 PM	8:50 PM	WLH	2206
B05	Fri	8:00 AM	8:50 AM	HSS	1128A
B06	Fri	2:00 PM	2:50 PM	WLH	2115
B07	Fri	5:00 PM	5:50 PM	SEQUO	148

Assignments:
You will receive total 2 assignments, which will be due the following week. The assignments will contain questions that will help you evaluate your understanding of the material covered in the lectures and prepare you for the exams. The answers will be explained at the discussion sessions. We will also distribute problem sets with answers for you to evaluate your knowledge.

Attendance:
Attendance will be collected at the discussion sections by the TA/IAs. You are allowed miss maximum 3 discussion sections to be able to receive the attendance credit.

Clickers:
We will not be using clickers in this course. However, during lecture, we will utilize other interactive resources to practice exam questions and cover course material.

Exam:
Exam questions will be short-answer and very similar to the assignments. The midterms will cover only new material for the indicated lectures. Only the The final exam will be comprehensive and graded on a curve.

** We will have remote review sessions before each exam (date/time TBA).

Regrading policy:
If you find an error on your exam you should submit a written re-grade request. To submit for a regrade, you must:

- Write a cover letter delineating: (1) which specific problem should be looked at and (2) describe why you think the problem was misgraded. A letter saying 'Look at everything.' is not acceptable
- The regrade request must be delivered no later than **1 week** after the graded exams are distributed. The final date for regrades will be announced in class or by a class email. You cannot submit your exam for a regrade after that date.
- We reserve the right to inspect your entire exam.

Academic Integrity:
Students are expected to do their own work, as outlined in the UCSD Policy on Academic Integrity.
https://academicintegrity.ucsd.edu/