BILD1: The Cell

SYLLABUS

INSTRUCTOR: Gulcin Pekkurnaz, Ph.D. **LOCATION:** Warren Lecture Hall 2113, MWF 11:00-11:50am **TEXTBOOK:** Campbell Biology, 11th edition

DATE	LECTURES		READING			
April	2	(1) Introduction and course overview				
	4	(2) Chemical Basis of Life	Chapters 2-4			
	6	(3) Small Molecules	Chapters 4-5			
9		(4) Macromolecules	Chapters 4-5			
	11 (5) Enzymes		Chapter 8			
	13	(6) Enzymes and Metabolism	Chapters 8-9			
	16	(7) Bioenergetics	Chapters 8-9			
	18	(8) Cellular Respiration	Chapter 9			
	20	(9) Photosynthesis	Chapter 10			
	23	MIDTERM EXAM 1 (Lectures 1-9)				
	25	(10) Cellular Architecture	Chapter 6			
	27	(11) Intracellular Organelles	Chapters 6-7			
	30	(12) Membrane Structure and Function	Chapter 7			
May	2	(13) Cell Communication	Chapter 11			
	4	(14) Cell Cycle				
	7	(15) Cell Cycle/Mitosis/Cancer	Chapter 12 and 18 (concept 18.5)			
	9	(16) Meiosis Chapter 13				
11 (17) Mitosis/Meiosis/Develo		(17) Mitosis/Meiosis/Development	hent Chapters 12-13 and 18 (concept 18.4)			
	14	4 MIDTERM EXAM 2 (Lectures 10-17)				
	16	(18) Mendelian Genetics	Chapter 14			
	18	(19) Chromosomes	Chapters 14-15			
	21 (20) Chromosomes and Heredity		Chapter 15			
			Chapter 15			
	23 (21) Inheritance and Molecular Genetics25 (22) DNA/ DNA Replication/ Transcription		Chapters 15-16 Chapter 16-17			
	20					
	28 <i>Memorial Day Observance</i> (No lecture)					
	30	(23) Transcription and Translation	Chapter 17			
June	1	(24) Gene Expression Regulation	Chapter 18			
	4	(25) Genome Evolution	Chapter 21			
	6 (26) Biotechnology		Chapter 20			
	8 Course closure and review					
	15	FINAL EXAM (Comprehensive)	11:30am-2:30pm			

GENERAL INFORMATION:

Contact:

Professor: Dr. Gulcin Pekkurnaz (gpekkurnaz@ucsd.edu) Office Hours: Pacific Hall building, Room 3212B April 9th- June 4th, **Mondays 2-3pm** or by appointment The best way to contact me is by e-mail (gpekkurnaz@ucsd.edu). Please remember to put **BILD1** in the subject line.

Instructional Assistant (IA): Nolan Baoan Mac

IA Office Hours: Office hours and the location will be posted on Triton Ed.

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.

Grading:

Assignments	5%
Attendance (course and discussion)	5%
Midterm exam 1	15%
Midterm exam 2	20%
Final exam	55%

The class is graded on a curve.

Lecture Notes:

A pdf of lecture the notes will be posted on Triton Ed the day before each lecture. Lectures will be based on the **Campbell Biology**, **11**th **edition** text book. However, essential material will be presented in the class. Attending lectures is key to mastering the material!

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

Discussions:

Discussion sessions will start the week of April 9th. There will be no discussion session during the first 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 settings with an IA.

B01	Wed	3:00pm	3:50pm	WLH	2110
B02	Wed	4:00pm	4:50pm	WLH	2110

Assignments:

You will receive total 5 assignments (one every two weeks), 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. After turning assignments in for grading, the answers will be explained at the discussion sessions.

Clickers:

We will <u>not</u> 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. The final exam will be comprehensive and graded on a curve.