

**SYLLABUS
BILD 1: The Cell**

Winter 2016

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Lecture Mon,Wed,Fri 8:00am-8:50 AM, Peter 108

Office Hours: Mondays 12:30 – 2:00 PM

Course Description: This is an introductory course detailing cellular and molecular biology.

Student Learning Outcomes:

Upon completion of BILD1 a successful student should:

1. Understand the major atomic, molecular, and cellular processes which underlie living things
2. Demonstrate mastery of the major principles of cellular structure, cellular physiology, and the flow of genetic information in cells

Recommended Texts, Materials, and Web-Enhancement

- Campbell Biology in Focus, Urry, Cain, Wassermann, Minorsky, Jackson, and Reese, Pearson (2014)
- or Campbell Biology, 9th Edition (2011), Campbell and Reece, are **optional texts**. Lectures will be, in part based upon topics covered in these texts. These are available on reserve at Geisel Library
- *Some additional readings will be provided via TED*
- All powerpoint lectures, associated handouts, and other relevant material are available on *TED*
- *Check for announcements on TED*
- *Instructional Assistants/Tutors: Names, sections, and contact information will be posted on TED*

Attendance, class ethics, and additional considerations

1. Attendance to class lectures and sections are **not required** but will ensure your success in the class.
 2. Exams will be based upon material in class, assigned science articles; Class attendance will be important for success.
 3. Please be respectful to your instructor and other classmates by making sure your cell phones are turned off and by **limiting conversations** within class.
- 1- **Academic dishonesty and plagiarism (the unauthorized or uncredited use of someone else's work) will result in a grade of "F" for the assignment. Its continued practice will be reported to the appropriate deans for possible disciplinary action and may result in an "F" for the course.**

Sections: Attendance Recommended: 10 bonus points for 75% attendance/participation

Exams

1. There will be three exams (each worth 100pts) and a final exam (worth 120pts) on the material stipulated in the study sheets, text reading, supplementary readings and videos and lectures. 75% of the final will cover material in the last section; 25% will contain information from the entire quarter. All exams count; You must take all exams during the scheduled times. A makeup exam *may* be granted with proper documentation of a hospitalization or death in the immediate family. I reserve the right to make this midterm an oral exam. There are no makeup final exams. Exams will include both multiple choice (using scantron) and short answer (must be in pen for possibility of a regrade).
2. You must show a photo ID when turning in your exams.
3. Exams will not be returned and may not be photographed or copied. They can be reviewed in your IA section in the week after they are graded. If you and your instructional Assistant feel a regrade may be warranted, I will take up the matter. The exams may be compared to a scan on the original exam to ensure no changes have been made
4. Grading will be based upon the scale indicated below. I reserve the right to adjust the tests scores up to ensure that the class average is B-/C+. I will not lower test scores to adjust the mean.

Letter grades will be assigned as follows:

GRADING

Your grade is based upon a percentage of the total points you accumulate during the semester.

A⁺ = 97% - 100% of the total possible points

A = 90% - 96% of the total possible points

B⁺ = 87% - 89% of the total possible points

B = 80% - 86% of the total possible points

C⁺ = 77% - 79% of the total possible points

C = 68% - 76% of the total possible points

D = 60% - 67% of the total possible points

F = Less than 60% of the total possible

Tentative Lecture Schedule

WEEK	Date	Lecture Topic	Campbell Chapter
1 Mon	Jan. 4	Introduction, Homeostasis	1
Wed	Jan. 6	Basic Chemistry	2,3
Fri	Jan. 8	Biomolecules	4,5
2 Mon	Jan. 11	Biomolecules	4,5
Wed	Jan. 13	The Cell	6+supplemental
Fri	Jan. 15	The Cell	6+supplemental
3 Mon	Jan. 18	HOLIDAY	
Wed	Jan. 20	Cell Membrane	7
Fri	Jan. 22	Cell Membrane AND Review for exam	
4 Mon	Jan. 25	Exam 1 (1-7)	
Wed	Jan. 27	Metabolism	8
Fri	Jan. 29	Cellular Respiration	8,9
5 Mon	Feb. 1	Cellular Respiration	8,9
Wed	Feb. 3	Photosynthesis	10
Fri	Feb. 5	Review for exam	
6 Mon	Feb. 8	Exam 2 (8-10)	
Wed	Feb. 10	DNA structure and replication	16
Fri	Feb. 12	Flow Genetic information	17
7 Mon	Feb. 15	HOLIDAY	
Wed	Feb. 17	Flow Genetic information	17
Fri	Feb. 19	Mendelian Genetics	14
8 Mon	Feb. 22	Other forms of inheritance	15
Wed	Feb. 24	Review for exam	
Fri	Feb. 26	Exam 3 (14-17)	
9 Mon	Feb. 29	The cell cycle	Chpt 12 +supplemental
Wed	Mar. 2	Cell communication	11
Fri	Mar. 4	Cell communication	11
10 Mon	Mar. 7	Cancer Genetics	Supplemental
Wed	Mar. 9	Cancer Genetics	Supplemental
Fri	Mar. 11	Review for final exam	Review for final exam
Final		FINAL EXAM	