

**SYLLABUS  
BILD 1: The Cell**

**Spring 2018**

**Instructor:** Michael Burg, Ph.D.

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**Lecture Mon/Wed 5:00pm-6:20 PM WLH 2001**

**Office Hours:** M/W 6:30-7-30pm (other office hours may be available upon request)

**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**

- NOT REQUIRED Campbell Biology in Focus, Urry, Cain, Wassermann, Minorsky, Jackson, and Reese, Pearson (2014)
- or Campbell Biology, 9<sup>th</sup> 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
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- *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: 5 bonus points for attendance/participation in 5 discussion sections ( Because of Monday holidays, Monday students can attend either another section or TA office hours to make up missing section during these weeks)**

**Additional 6pts extra credit for CAPE response rate of >80%**

**Exams**

1. There will be two exams ( a midterm (100pts) and final 150 pts) the final exam is not cumulative. The exams **ARE BASED UPON CLASS MATERIAL**; material stipulated in the study sheets, supplementary readings and videos and lectures. 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. There will be an assignments specified during the quarter that will be worth a total of approximately 50pts
3. **You must show a photo ID when turning in your exams.**
4. **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

5. Grading will be based upon the scale indicated below. 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+ = 99% - 100% of the total possible points

A= 90% - 98% of the total possible points

B+ = 89% of the total possible points

B = 80% - 88% of the total possible points

C+ = 79% of the total possible points

C = 78% -70% of the total possible points

D = 69% -60%of the total possible points

**F = Less than 60% of the total possible**

Tentative Lecture Schedule

WEEK	Date	Lecture Topic	Campbell Chapter
1 Mon	1/8	Introduction, Homeostasis	1
Wed	1/10	Homeostasis ; Basic Chemistry	2,3
2 Mon	1/15	<b>HOLIDAY;</b>	
Wed	1/17	Basic Chemistry ; Biomolecules	4,5
3 Mon	1/22	Biomolecules; The Cell	6+supplemental
Wed	1/24	The Cell; cell trafficking	6+supplemental
4 Mon	1/29	Cell Membrane	6+supplemental
Wed	1/31	Metabolism	8
5 Mon	2/5	Cellular Respiration	9,10
Wed	2/7	Cellular Respiration; Review for exam	9,10
6 Mon	2/12	<b>Exam 1 (1-10)</b>	1-6+supplemental
Wed	2/14	DNA structure and replication	16
7 Mon	2/19	<b>HOLIDAY</b>	
Wed	2/21	Flow Genetic information	17
8 Mon	2/12	Flow Genetic information	17
Wed	2/18	Cell cycle/ Cell communication	11,12
9 Mon	3/5	Cell communication Stem Cells and differentiation	Chpt 12 +supplemental
Wed	3/7	Stem Cells and differentiation Cancer Genetics	supplemental
10 Mon	3/12	Cancer Genetics,Genome, epigenome and personalized medicine	supplemental
Wed	3/14	Cancer Genetics,Genome, epigenome and personalized medicine	supplemental
Mon	3/19	<b>FINAL EXAM 7-10pm</b>	