

Biology 212: Introduction to Cell Biology (2cr.)
Spring 2008
WF 11:00am LS118

Dr. Kristin Hall, Ph.D.

LS-208

Kristin.hall@colostate-pueblo.edu

Department office (to leave messages): 549-2743

Office hours:

Wednesdays 1:30-2:30

Fridays 12:30-1:30

or by appointment

Required textbook:

Essential Cell Biology, 2nd ed. Alberts, et al. ISBN 0-8153-3480-X

Pre-requisites for Bio 212:

General Chemistry I & II (with labs) and College Biology I and II (with labs).

Classroom Policies:

1. Please arrive to class on time.
2. Please do not talk during class.
3. Turn cell phones and pagers OFF during class.
4. Attendance is your responsibility. If you must miss a class, you are still responsible for the material covered in your absence.
5. Absence for university-sanctioned events (athletics, etc.) must be reported to me in advance (early exams will be scheduled when absolutely necessary).
6. There will be no make up quizzes given for any reason.
7. Academic dishonesty will not be tolerated.

Attendance:

Six random dates will be chosen throughout the semester for quizzes. No make-ups will be given, and the lowest score (potentially including a zero for a missed quiz) will be dropped. Each quiz will be worth 10 points.

When necessary, early exams will be given but it is the student's responsibility to contact me regarding arrangements at least a week prior to the exam date. In the event that extreme circumstances prohibit attendance on the day of an

exam, it is essential that the student contacts me by phone or email the day of the test. An all-essay exam will be scheduled for the make-up.

Course Objectives:

-Students will understand that cells are the basis of life and recognize similarities and differences between biological organisms at the cellular level.

-Students will identify and describe the functions associated with cellular structures.

-Students will understand the connection between genes and cellular activities.

-Students will learn about commonly used laboratory techniques and equipment used to study cells and their component parts.

Grading:

Homework, minute papers	50
Quizzes	50
Exam1	100
Exam 2	100
Final Exam	<u>150</u>
	450 total points

The grading scale:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
≤59%	F

Students with Disabilities:

CSU-Pueblo abides by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, which stipulate that no student shall be denied the benefits of an education "solely by reason of a handicap." If you have a documented disability that may impact your work in this class and for which you may require accommodations, you must be registered with and provide documentation of your disability to the Disability Services Office (located in the Psychology Building, room 232).

Spring 2008 Calendar

Dates	Topic	Material Covered
Jan 16	Introduction	Ch 1 1-16
Jan 18	Methods to study cells	Ch 1 27-34; Ch 10 324-327
Jan 23	Organelles and chemical components of cells	Ch 1 16-25; Ch 2 39-58
Jan 25	Macromolecules found in cells	Ch 2 58-81
Jan 30	Energy, enzymes and catalysis	Ch 3
Feb 1	Protein structure and function/methods to study proteins	Ch 4
Feb 6	Membrane structure	Ch 11 365-386
Feb 8	Membrane transport	Ch 12 389-405
Feb 13	Energy generation in mitochondria and chloroplasts	Ch 14
Feb 15	Catch-up/Review	
Feb 20	Exam 1	
Feb 22	DNA and chromosomes, DNA replication	Ch 5
Feb 27	Cell cycle introduction and mitosis	Ch 19 637-652
Feb 29	From DNA to Protein (transcription/translation)	Ch 7
Mar 5	Control of gene expression	Ch 8
Mar 7	Protein trafficking	Ch 15
Mar 12	Cell communication	Ch 16
Mar 14	Methods to study DNA/biotechnology	Ch 9
Mar 19	Catch-up/Review	
Mar 21	Exam 2	
Mar 26	Spring Break!	
Mar 28	Spring Break!	
Apr 2	Cytoskeleton and cell motility	Ch 17
Apr 4	Cell division	Ch 19 652-656
Apr 9	Meiosis and gamete formation	Ch 20 659-672
Apr 11	Extracellular Matrix and connective tissue	Ch 21 697-720
Apr 16	Cell cycle control and cell death	Ch 18
Apr 18	Stem cells: controversy and promise	Ch 21 721-726
Apr 23	Cancer	Ch 21 726-737
Apr 25	Catch-up/Review	
Apr 29	Final Exam (10:30-12:50)	