

California State University | Stanislaus

BIOL 3310, CELLULAR AND MOLECULAR BIOLOGY SPRING 2014

Instructor:	Mark A. Grobner	Office Hours:	TR 11-12, W 10-11, or by appointment
Office:	N259	Term:	Spring 2014
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Website:	Http://biology.csustan.edu/~grobner	Class Location:	N104

COURSE INFORMATION

University Course Catalog Description

Introductory analysis of the structure and function of the major components of the cell with emphasis on the molecular mechanisms involved in membrane function, signal transduction, intracellular compartments and transport, cell division and apoptosis.

Course Prerequisites/Requirements

Students must have completed BIOL 1050, BIOL 1150, CHEM 1100, CHEM 1110, or equivalents.

Required Texts and Materials

Becker's World of the Cell, Hardin *et al.*

The Cell Place - <http://www.thecellplace.com>, course ID **cm481721**

Blackboard - <http://www.csustan.edu/Blackboard/>

Course Learning Outcomes -

For students to understand the structure, function, and basic principles of the major components of the cell and molecular biology, as well as become familiar with experimental evidence that supports the current knowledge of the cell.

COURSE ASSIGNMENTS AND GRADING

This course will consist of chapter quizzes to be completed with each chapter at the publisher web site, <http://www.thecellplace.com> (10%), iClicker responses (10%) and three exams (80%).

Academic Dishonesty and Misconduct

Exams, reports, and presentations are indicators of individual performance. Copying off another student's exam, plagiarized reports, presentations or papers constitutes cheating. There is zero tolerance for cheating. Cheating in any capacity in this class will result in penalties ranging from a minimum of a zero on the assignment or exam to a maximum of expulsion from California State University, Stanislaus as indicated by the official University Policy regarding dishonesty and misconduct.

Class attendance is highly recommended

Missing classes may result in poor performance in the course. You are responsible for any information or assignments you missed in your absence. You will also miss on iClicker points for questions and possibly an iClicker quiz given during lecture; there is no making up missed iClicker points. I highly recommend reading the assigned chapters before coming to class.

Exams

There will be three exams during the term worth 75 pts. each and the final worth 175 pts. The final will be comprehensive. Exams may consist of any of the following: multiple choice, definitions, fill in the blank, matching, and short answer essay questions.

You will need Scantron form # 882-E for the exams. Note that:

1. only answers on the scantron will be graded, so transfer answers carefully
2. take care to erase well those answers you do not want marked
3. illegible answers in the written portion will not be graded.

There will be no make-up exams

Failure to appear at exam time without 24 hours prior notice to the instructor with an appropriate excuse, or an appropriately documented emergency, will result in zero points for that exam.

iClicker questions

Each lecture, you will be asked to respond to a number of questions using the iClicker student response system. The questions will come from lecture material that was covered previously, so it is in your best interest to keep up with the material. I will also give pop quizzes using the iClickers. You will receive one point for answering the questions asked each day and an additional point for each correct answer. Your final iclicker grade will be based on the percentage of points you have earned out of the total possible. You will then be awarded points out of a total of 100 corresponding to your percentage points earned.

TheCellPlace.com

For each chapter, there is a set of review questions on the web site <http://www.TheCellPlace.com> (course ID **cm481721**). You are to complete these review quizzes by the listed due dates for each set. You can complete these anytime up to the due date, I will not allow you to complete assignments that are not done on time. Your final Cell Place grade will be based on the percentage of points you have earned out of the total possible. You will then be awarded points out of a total of 50 corresponding to your percentage points earned.

Course Grading

Your grades will be assigned as follows:

Assessment	Total Points
The Cell Place	50
iClicker responses	50
Exams	400
Total	500

I will use plus/minus grading.

Grading Scale (%)	
94-100	A
90-93	A-
87-89	B+
84-86	B
80-83	B-
77-79	C+
74-76	C
70-73	C-
67-69	D+
64-66	D
60-63	D-
0 - 59	F

Grades of "Incomplete"

From The University Catalog –

An Incomplete signifies (1) that a portion of required coursework has not been completed and evaluated in the prescribed time period due to unforeseen but fully justified reasons beyond the student's control, and (2) that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements which must be satisfied to remove the Incomplete. The conditions for removal of the Incomplete shall be put in writing by the instructor and given to the student, with a copy placed on file with the department chair. A final grade will be assigned when the work agreed upon has been completed and evaluated.

Any Incomplete must be made up within the time limit set by the instructor; in any case, no more than one calendar year following the end of the term in which the Incomplete was assigned. An Incomplete should never be used to (1) give a failing student an opportunity to redo unsatisfactory work or complete additional work; or (2) give a student more time to complete his/her work when the reasons for the delay have been within his/her control. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an incomplete reverting to a grade of NC for grading options 1 and 2, and to a grade of IC for grading option 3. (See the Academic Standards section of this catalog and the Schedule of Classes Informational Guide for grading options.)

In cases of prolonged illness or any emergency which necessitates an extension of time to complete the course, the student may petition through the academic department where the course was offered. Students may not be permitted to graduate until all Incompletes are removed or evaluated as "IC" grades. Students are not to reregister in courses in which they have an Incomplete.

http://catalog.csustan.edu/content.php?catoid=12&navoid=541&returnto=search#indi_stud_cour

COURSE POLICIES: TECHNOLOGY AND MEDIA

Email

Questions regarding course materials should be directed to me at mgrobner@csustan.edu. Please be sure to put **BIOL 3310** in the subject line as I get a lot of emails every day and I want to be sure to respond to yours quickly. For issues with BlackBoard, please contact the helpdesk, linked from the BlackBoard login page.

Cell Phones

Cell phones should not be out or used during class. Any cell phones out during lecture will be confiscated and returned at the end of the period. If your cell phone is out during an exam, this will result in an automatic F for the exam.

University Academic Conduct Policy

There will be zero-tolerance for plagiarism/cheating. Plagiarism and/or cheating will result in a 0.0 for the class. For further information, please see the CSU Stanislaus catalog for Student Code of Conduct http://catalog.csustan.edu/content.php?catoid=3&navoid=115#stud_cond

RESOURCES

University Library

For help with researching materials for your position paper, please go to the following for tutorials on the various resources the library has to offer:

<http://library.csustan.edu:8080/researchassistance.html>

Disability Resource Services

CSU Stanislaus respects all forms of diversity. By university commitment and by law, students with disabilities are entitled to participate in academic activities and to be tested in a manner that accurately assesses their knowledge and skills. They also may qualify for reasonable accommodations that ensure equal access to lectures, labs, films, and other class-related activities. Please see the instructor if you need accommodations for a registered disability. Students can contact the Disability Resource Services office for additional information. The Disability Resource Services website can be accessed at <http://www.csustan.edu/DRS/>
Phone: (209) 667-3159

Recording Policy:

Audio or video recording of classes (tape and digital format) or use of cameras/phones to photograph or record lectures is not permitted. An exception is made for students registered with Disability Resource Services, who are approved for this accommodation. In such exceptions, DRS students will be asked to sign a "Recording Agreement" which disallows them from sharing recordings with other individuals unless approved by the DRS program.

COURSE SCHEDULE

Tentative Lecture Schedule

The following is a tentative schedule for lecture. Materials will be available online prior to lecturing on the chapter. Please check Blackboard periodically for any changes to this schedule.

Date		Subject	Pages
Jan	27, 29	Chapter 1, A Preview of the Cell	1-17
Feb	31, 3, 5	Chapter 2 & 3, The chemistry and Macromolecules of the Cell	18-41
	7, 10	Chapter 4, Cells and Organelles	42-75
	12, 14	Chapter 5, Bioenergetics: The Flow of Energy in the Cell	76-106
	17, 19	Chapter 6, Enzymes: The Catalysts of Life	107-129
	21	Exam 1 and The Cell Place, Chapter 1-6	
	24,26	Chapter 7, Membranes: Their Structure, Function, and Chemistry	130-156
	28, 3	Chapter 8, Transport Across Membranes	157-194
Mar	5, 7, 10	Chapter 9 & 10, Chemotrophic Energy Metabolism	195-252
	12, 14	Chapter 11, Phototrophic Energy Metabolism: Photosynthesis	253-293
	17, 19	Chapter 12, The Endomembrane System and Peroxisomes	294-324
	21	Exam 2 and The Cell Place, Chapters 7-12	
	24, 26	Chapter 13, Signal Transduction Mechanisms I	325-365
	28	Chapter 14, Signal Transduction Mechanisms II	366-392
	31	Cesar Chavez day	
Apr	2, 4	Chapter 15, Cytoskeletal Systems	293-422
	7, 9	Chapter 16, Cellular Movement	423-449
	11, 14	Chapter 17, Cell Adhesions, Junctions and Extracellular	450-477
	16	Chapter 18, The Structural Basis of Information	478-505
	18	Exam 3 and The Cell Place, Chapters 13-18	
	21-25	Spring Break	
	28, 30	Chapter 19 & 20, Mitosis and Meiosis	506-600
May	2, 5	Chapter 21 & 22, Gene Expression I & II	601-709
	9, 12	Chapter 23, The Regulation of Gene Expression	710-757
	14, 16	Chapter 24, Cancer Cells	758-793
	21	Final Exam and The Cell Place Chapters 17-24 (8:30-10:30)	