

COURSE SYLLABUS

**Introductory Biology--Cell
Biology 201**

**Dr. Weinheimer
Dr. Miranda
Dr. Engal
Spring 2012**

TEXTS: Biological Science: The Cell, Genetics,
& Development Vol 1 By Freeman 4th Edition
Laboratory Manual by Weinheimer, 1990

<u>DATE</u>	<u>DAY</u>	<u>LECT/LAB TOPIC</u>	<u>READING ASSIGNMENT</u>
4/2	M	Lec: Introduce Course Define Life and Introduce the Scientific Method	Read Ch 1 & 2 in Kirk on reserve in library.
4/2	M	Lab: The Microscope & Microscopy	
4/4	W	Lec: Life and its Chemistry	Ch 2
4/4	W	Lab: pH and Buffers	
4/9	M	Lec: Cell Chemistry	Ch 2,3 &4
4/9	M	Lab: The Structure of Major Cellular Molecules	
4/11	W	Lec: The Molecules of Life	Ch 3,4,5 &6
4/11	W	Lab: Scientific Reading & Reasoning	
4/16	M	Lec: Organization of the Cell	Ch 7
4/16	M	Lab: The Red Blood Cell as a Model To Study Osmosis & Tonicity (First Lab Report-Start)	
4/18	W	Lec: Midterm I (50 POINTS)	
4/18	W	Lab: Environmental Effects & Enzymes	
4/23	M	Lec: Membranes & Cell Transport	Ch 6 &7
4/23	M	Lab: Enzyme Kinetics (First Lab Report turned in)	
4/25	W	Lec: Energy & Energetics	Pg/ 27-33

4/25	W	Lab: Project	
4/30	M	Lect: Enzymes & Metabolism	Ch 3
4/30	M	Lab: Project	
5/2	W	Lect: Anaerobic Respiration (Fermentation)	Ch 9
5/2	W	Lab: Project Presentations	
5/7	M	Lect: Aerobic Respiration (Krebs' Cycle)	Ch 9
5/7	M	Lab: Respiration	
5/9	W	Lect: Photosynthesis	Ch 10
5/9	W	Lab: Photosynthesis	
5/14	M	Lect: Midterm II (100 points)	
5/14	M	Lab: The Cell Cycle	Ch 11
5/16	W	Lect: Mendelian Inheritance	Ch 13
5/16	W	Lab: Genetics Problems	
5/21	M	Lect: Non- Mendelian Inheritance	Pg. 241-252
5/21	M	Lab: Cell Division	
5/23	W	Lect: Molecular Genetics	Ch 14 &15
5/23	W	Lab: Genetic Transformation (Part 1)	
5/28	M	Lect & Lab Holiday	
5/30	W	Lect: Protein Synthesis	Ch 16
5/30	W	Lab: Genetic Transformation (Part 2)	
6/4	M	Lect: Microbial Genetics	Ch 17
6/4	M	Lab: Origin of Life—Origin of the Cell	
6/6	W	Lect: Microbial Genetics (Film)	
6/6	W	Review	
6/11	M	Study Day	

6/13

W

Final Exam 11:00am-1:30pm DDH GJ102
(150 points)

PRINCIPLES OF CELLULAR BIOLOGY

Biology 201

T. Weinheimer

Spring 2012

Excuses for absence from a midterm, or final exam must be given one day before the test. You can contact one of the following if you cannot take the exam at the given time:

Your Instructor, Dr.T. Weinheimer	654-2229
Chairman, Dept. of Biology, Dr. McBride	654-3025
Department Secretary, Terry Hansen	654-3089
Dean, Natural Sciences and Mathematics	654-3450
Campus Police	654-2111

<u>EVALUATION</u>	<u>POINTS</u>
Assigned Points K Factor	10
Lab Reports	50
	100
MIDTERM I	50
MIDTERM II	100
FINAL EXAMINATION	<u>150</u>
	460 TOTAL

Two major laboratory reports will be required. They should be 7-10 pages long with tables, graphs, and literature cited. The first will be worth 50 points, and the second report worth 100 points. They will be graded as to format, accuracy, completeness, originality (interpreting results), and neatness. The Biology Department format for laboratory reports is online and in your laboratory manual and should be closely followed. Only one report/group is needed for the first report. The second report is an individual effort. No credit will be given in the course if either of the two reports is not turned in for a grade during the quarter the course was taken.

OTHER IMPORTANT INFORMATION

May 18, 2012 is the last day to withdraw from classes.

There are penalties for academic dishonesty, in particular plagiarism. Plagiarism is the taking of ideas, writings, etc. and passing them off as one's own.

When you are asked to prepare a group report and submit a single paper for the entire group then, of course, there can be no plagiarism among members of the group with respect to that single report.

When you are asked to work in a group, but to prepare individual reports then the only part of the report that can be identical is the data. However, you should prepare your own Tables and Figures! Ideas and written presentation should not be borrowed from each other!

All academic work will be done by the student to whom it is assigned, without unauthorized aid of any kind. In all cases of academic dishonesty the first offense will result in the student's receiving an "F" in the course, and the second offense will result in the termination of the student's enrollment at the University (Academic Integrity pg 78-79, CSUB 2011-20013 Catalogue).

Instructors Note

You are expected to work and remain focused in this course. This is the first biology course in the Department of Biology's curriculum at CSUB. This is not high school! Doing all the work on time and to the best of your ability is essential if you want to move on to the plant and animal courses in the introductory sequence. Communicate with your instructor. If you have a problem let me know, maybe I can help.