BIO 3813 Cellular Biology
Summer 2007; MW 2:00 -3:50 pm; SB 2.03.08

Instructor: Bill Espinoza, Ph.D.
Office: SB 2.01.40 **Telephone**: 458-4509 **email**: Use the WebCT
Office hours: Tues. 1:00 – 3:00 pm; Wed. 12:00 – 1:00 pm ; or by appointment

Textbook: H. Lodish, et al. (2004), **Molecular Cell Biology**, **5th Edition**, W.H. Freeman and Company, N.Y.

Prerequisites: Biochemistry, General Physiology **Recommended**: Genetics

Course Objective: To provide an introductory grasp of cell biology with emphasis on the molecular, genetic and structural principles and processes of the cell.

Attendance: While students can decide themselves whether to come to class, it is highly advised that they attend all classes. Students are held responsible for the material presented in each class even if they do not attend.

Grading: There are three exams and a comprehensive final. The lowest score from the three exams counts 10% and the other two count 30% each for a total of 70%. The comprehensive final is 30% of the grade.

Exams will primarily be multiple choice but may include fill-in-the-blank, short answer, and possibly a short essay question. Makeup exams are allowed only for serious, acceptable excuses as illness or a death in the immediate family. Official, verifiable documentation must be submitted prior to taking a makeup exam. Makeup exams are detailed essay and no multiple choice.

Extra credit: There is no extra credit additional to the scheduled exams. The student is expected to make up his/her own mind what work must be applied during the semester in order to pass the course.

Drop with automatic "W": Students are responsible for dropping a course by the scheduled drop date. The student should be well aware of the date in case he/she may decide to drop this course. The 10-week summer drop day is 25 June, 2007.

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Tentative Class Schedule

		Chapter
6/4	Introduction and Chemical Foundations	1 - 2
6/6	Proteins; Biomembranes	3, 5
6/11	Cell architecture; Membrane Transport	5, 7
6/13	Proteins into membranes	16
6/18	Vesicular Traffic	17
6/20	**Exam 1**; Basic Genetic Mechanisms	4
6/25	Basic Genetic Mechanisms; Genes and Chromosomes	4, 10
6/27	Genes and Chromosomes; Transcriptional Control	11
7/2	Post-transcriptional Control	12
7/4	4th of July Holiday – **No Class**	
7/9	Summer 5 wk Finals – **No Class**	
7/11	Microfilaments, myosin, microtubules	19
7/16	**Exam II**; Dynein, Kinesin	20
7/18	Dynein, Kinesin	20
7/23	Cell Signaling and Signal Transduction	13 - 14
7/25	Cell Cycle Control	21
7/30	Cell Birth and Death	22
8/1	Cells and Tissues	6
8/6	**Exam III**	
8/8	Makeup day; Final Review	
8/14	**Final Exam**, Tuesday 1:30 – 4:00 pm	