BIM 202: Cell & Molecular Biology for Engineers, Winter 2014

University of California, Davis
Department of Biomedical Engineering

Schedule: Lectures: MW 10:00 – 11:50 PM, GBSF 2202

Instructor: Soichiro Yamada (syamada@ucdavis.edu)
Office: GBSF 2317, Phone: (530) 752-7251
Office hour: By appointment

Textbook: ***Molecular Biology of the Cells***, Alberts et al., 5/e 2008 Garland Science

Grading: Homework problems will be assigned in Smartsite. The exams will be closed book and notes. No make up homework or exams. The grade will be based on; homework (10%), midterm I (25%), midterm II (30%), and final exam (35%).

Course Schedule:

	Date	Topic	HW #	MBC 5th ed
1	Jan 6	Introduction to cells		Ch1, 8, 9
2	Jan 8	Manipulating genes and proteins		Ch3, 8
3	Jan 13	Nuclear transport		Ch12
4	Jan 15	Sorting in ER and Protein coats		Ch13
5	*Jan 20*	*Martin Luther King Jr's day*		Ch13
6	Jan 22	Vesicle budding and fusion	#1	Ch13
7	Jan 27	**Midterm I (25%)**		
8	Jan 29	Biochemistry of actin		Ch16
9	Feb 3	Listeria motility		Ch16
10	Feb 5	Regulation of cell motility I		Ch16
11	Feb 10	Regulation of cell motility II		Ch16
12	Feb 12	Actin-based motor proteins	#2	Ch16
13	*Feb 17*	*Presidents day*		
14	Feb 19	**Midterm II (30%)**		
15	Feb 24	Microtubule dynamics		Ch16
16	Feb 26	Microtubule-based motor proteins		Ch16
17	Mar 3	Mechanics of cell division		Ch17
18	Mar 5	Cell-extracellular adhesion		Ch19
19	Mar 10	Cell-cell adhesion		Ch19
20	Mar 12	Regulation of cell adhesion	#3	Ch19
21	Mar 17	**Final (35%)**		