

Biology 567 BCMBII – Fall 2009

Meeting Time and Place: TTh 9:30-10:45 A.M. & F 9:00-9:50 A.M., LS132

Instructors:

Dr. Terry Frey: LS 104A / 332A; 594-3044/6756; tfrey@sciences.sdsu.edu
Office hours: by appointment

Dr. Ralph Feuer: LS 358; 594-7377; rfeuer@sciences.sdsu.edu
Office hours: by appointment

Dr. Jacques Perrault: LS 401; 594-5150; jperrault@sunstroke.sdsu.edu
Office hours:

Content: Advanced concepts of modern integrated Biochemistry, Cell and Molecular Biology.

Learning Outcomes: Students will:

- Ascertain how experimental results yield textbook descriptions in the fields of Biochemistry, Cell and Molecular Biology
- Devise experimental approaches to solving questions in Biochemistry, Cell and Molecular Biology
- Consult and analyze the primary research literature
- Orally present material from the primary research literature

Exam and Lecture Schedule: See the Lecture Schedule below

Required Text: *Molecular Cell Biology*, H. Lodish et al., 6th edition [2008].
Note: You should have this text from Bio366.

Other Required Materials: Other materials will be available on library reserve, distributed in class as indicated by the instructors, or on Blackboard.

Prerequisites: Biology 366 or equivalent course work.

Grading: There will be one exam for each of the three segments of the course, based on assigned readings and lecture material. Each segment will be worth one-third of the final course grade. *For each segment, the exam is worth 75% of your segment grade, and we **may** include extra credit points in your exam grade, from in class quizzes – announced and unannounced – or in other forms.* The remaining 25% of the segment grade will be based on literature analysis and critique and other requirements as specified by the instructors. All students are expected to participate in discussions of assigned papers.

Graduate students will be graded on a separate scale that will include additional assignments determined by the instructors.

The grade assignments will likely be on a “standard” straight percentage distribution:

Percentage	Grade
90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
<60%	F

The use of + and – grades will be determined by the instructors at the end of the course.

Course Etiquette: Turn off your cell phones and pagers before entering class.

Make-up Policy: Exams and other assignments are due on the day and time specified unless prior arrangements are made. Only exceptional circumstances or a medical condition accompanied by a doctor's excuse will be accepted for a make-up exam.

Plagiarism in any form will not be tolerated. No credit will be given for plagiarized work and students who plagiarize will be reported to the Judicial Procedures Office. If you are unclear of the definition of plagiarism, see an instructor or the University Catalog.

Cheating: Cheating will not be tolerated. Students who cheat will receive no points for the exam or assignment and will be reported to the Judicial Procedures Office.

State Budget Cuts Cause Faculty Furloughs

The devastating California state budget cuts prohibit faculty and staff at SDSU from working on two days per month during the 2009/10 academic year.

The faculty furlough prohibits faculty members from teaching, being on campus, doing research, and consulting with students on two days per month. Faculty furlough days vary from faculty to faculty. Our furlough days that occur on teaching days in Biology 567 are listed in the lecture schedule. On those days, classes and office hours are cancelled and telephone and e-mail messages will not be answered.

The staff furlough causes most University, College, and Department Offices to close on the following days: Sept 11, 18; Oct 2, 16; Nov 13, 25; Dec 21, 22, 23, 24.

To avoid faculty and staff furloughs at SDSU in the future, you may want to contact your legislators in Sacramento so that they better understand how cutting the state budget for higher education affects your education and your future.

Biology 567 – Biochemistry, Cell, and Molecular Biology III
Fall 2009: Tu/Thurs 9:30 – 10:45 & Fri 9:00 – 9:50 – LS 132

Date	Day	Lecture Topic	Text Reading Assignment	Instructor
		Segment 1: Cytoskeleton, Motor Proteins, & the Extracellular Matrix		Frey
9/1	Tu	Actin Structure and Binding Proteins	Ch17: 713-728	Frey
9/3	Th	Actin-Based Movement	Ch17: 728-731;	Frey
9/4	F	Myosin Struct. & Actin/Myosin Motility	Ch17: 731-752	Frey
9/8	Tu	Actin/Myosin Motility (cont.) / Microtubules	731-752 / Ch18	Frey
9/10	Th	Microtubules: Structure & Properties / Kinesin & Dynein	Ch18:	Frey
9/11	F	Study Day – Class Cancelled		Frey
9/15	Tu	Paper 1 + Quiz		Frey
9/17	Th	Kinesin & Dynein / Cilia & Flagella; Mitosis	Ch18:	Frey
9/18	F	Furlough Day		Frey
9/22	Tu	Intermediate Filaments	Ch18:	Frey
9/24	Th	Paper 2 + Quiz		Frey
9/25	F	Cell-Cell Interactions & Extracellular Matrix	Ch19:	Frey
9/29	Tu	Cell-Cell Interactions & Extracellular Matrix	Ch19:	Frey
10/1	Th	SEGMENT 1 EXAM		Frey
10/2	F	Paper 3 + Quiz		Frey
		Segment 2:		Feuer
10/6	Tu	Signal Transduction I	Ch15:	Feuer
10/8	Th	Signal Transduction II	Ch16:	Feuer
10/9	F	Cell Cycle I	Ch20:	Feuer
10/13	Tu	Paper 1 + Quiz		Feuer
10/15	Th	Cell Cycle II	Ch20	Feuer
10/16	F	Stem Cells	Ch21:	Feuer
10/20	Tu	Paper 2 + Quiz		Feuer
10/22	Th	Cancer I	Ch25:	Feuer
10/23	F	Cancer II	Ch25:	Feuer
10/27	Tu	Apoptosis/Autophagy	Ch21:	Feuer
10/29	Th	Paper 3 + Quiz		Feuer
10/30	F	Furlough Day		Feuer
11/3	Tu	Immunology I	Ch24:	Feuer
11/5	Th	Immunology II	Ch24:	Feuer

11/6	F	SEGMENT 2 EXAM		Feuer
11/10	Tu			Perrault
11/12	Th			Perrault
11/13	F			Perrault
11/17	Tu			Perrault
11/19	Th			Perrault
11/20	F			Perrault
11/24	Tu			Perrault
11/26-27		THANKGIVING HOLIDAY		
12/1	Tu			Perrault
12/3	Th			Perrault
12/4	F			Perrault
12/8	Tu			Perrault
12/10	Th			Perrault
12/11	F			Perrault
12/17	Th	SEGMENT 3 EXAM IV 10:30-11:45		Perrault
Text:		Lodish et al., Molecular Cell Biology 6th Ed., W.H. Freeman & Co		

Instructor	Contact Information	Office Hours
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Last Updated on 8/31/09 by Terry Frey