

Chem 146/246 - Membrane Biochemistry

Syllabus- Winter 2009

Instructor	Stanley M. Parsons, Chemistry 1132, back of lab turn right, office hours anytime, email parsons@chem.ucsb.edu.
TA	Ahn Vu, Chemistry 1126, office hours WF 5:15-6:15, email avu@chem.ucsb.edu
Schedule, room	MWF 2:00-2:50 pm, Phelps 3505
Required Text	Membrane Structural Biology, with Biochemical and Biophysical Foundations, Mary Luckey, Cambridge University Press.
Homework Grading	Six graded homework assignments will be made for a total of 100 points. The midterm is 100 points and the final is 200 points. The course grade will be determined by the sum of scored points for the homework, midterm and final.
Web site	The web site is at http://www.chem.ucsb.edu/coursepages/ where the syllabus, example exams, and other information will be posted. Username and password for access to slides in a protected directory will be announced in class.

Date	Chapter	Topic		
Jan	5	1	Course Goals and Introduction	
	7	2	The Diversity of Membrane Lipids	
	9	2	The Diversity of Membrane Lipids	
	12	2	The Diversity of Membrane Lipids	
	14	2	Diversity of Membrane Lipids – Homework 1 (15 pts) assigned on web.	
	16	3	Tools for Studying Membrane Components	
	19		Holiday	
	21	3	Tools for Studying Membrane Components	
	23	3	Tools for Studying Membr Components – Homework 2 (15 pts) assigned.	
	26	4	Proteins in or at the Bilayer	
	28	4	Proteins in or at the Bilayer	
	30	1-3	Midterm Exam (100 pts). No web-capable electronics allowed.	
	Feb	2	4	Proteins in or at the Bilayer – Homework 3 (15 pts) assigned. Drop day.
		4	5	Bundles and Barrels
6		5	Bundles and Barrels	
9		5	Bundles and Barrels – Homework 4 (15 pts) assigned.	
11		6	Functions and Families	
13		6	Functions and Families	
16			Holiday	
18		6	Functions and Families	
20		6	Functions and Families	
23		6	Functions and Families – Homework 5 (20 pts) assigned on web.	
25		7	Protein Folding and Bioenergetics	
27		7	Protein Folding and Bioenergetics	
March		2	7	Protein Folding and Bioenergetics
	4	7	Protein Folding and Bioenergetics	
	6	7	Protein Folding and Bioenergetics – Homework 6 (20 pts) assigned.	
	9	10	Transporters and Channels	
	11	10	Transporters and Channels	
13	10	Transporters and Channels		
Tues	17	1-7, 10	Final Exam (200 pts) 4 to 7 pm in the classroom. All topics (including in the slides not in text) will be covered. No web-capable electronics allowed.	
