

**Chemistry/BioSciences/Chemical Engineering 188/288**  
**Biochemistry I – Fall 2006**

---

<b>Instructor:</b>	Professor Jennifer Kohler ( <a href="mailto:jjkohler@stanford.edu">jjkohler@stanford.edu</a> ) Keck Building, room 351 Office Hours: Wed 2-3pm; Thu 10:30-11:30am
<b>Course Text:</b>	Berg, Tymoczko, & Stryer: Biochemistry 6 <sup>th</sup> Edition (on reserve at Swain)
<b>Lectures:</b>	Tuesdays & Thursdays, 9-10:30am, Braun Auditorium
<b>Optional Weekly Review Sessions:</b>	Sundays 7-8pm and Mondays 5:30-6:30pm, Braun Auditorium (the same material will be reviewed at both sessions each week)
<b>Exams:</b>	One midterm (90 min) on Tuesday, Oct. 31 during class. The final exam will be Thu, Dec 14, 12:15-3:15pm. A single note sheet (8.5x11in, front and back) will be allowed on exams.
<b>Grading:</b>	Grading is based on weekly problem sets (25%), one midterm exam (25%) and the final exam (50%)
<b>Assignments:</b>	Reading assignments are given on the course schedule and handouts will be given in class. Weekly problem sets will be assigned as handouts and should be turned in by the end of class on the due date indicated. Late problem sets will be marked down by 10% for each 24 hours past due. Problem sets turned in after the key is posted online will not be accepted.
<b>Course Website:</b>	Course materials, problem sets, and solutions will be posted on the coursework website which can be accessed through <a href="http://coursework.stanford.edu">http://coursework.stanford.edu</a>
<b>Teaching Assistants:</b>	Ilya Shestopalov (Head TA) – <a href="mailto:ilya81@stanford.edu">ilya81@stanford.edu</a> Derek Huang - <a href="mailto:ddhuang@stanford.edu">ddhuang@stanford.edu</a> Saptarshi Mandal – <a href="mailto:mandal@stanford.edu">mandal@stanford.edu</a> Debbie Stoner – <a href="mailto:dstoner@stanford.edu">dstoner@stanford.edu</a> Eun Ji Shin – <a href="mailto:ejshin@stanford.edu">ejshin@stanford.edu</a>
<b>Office Hours:</b>	Derek – Thu 1-3pm, Mudd 237 Saptarshi – Mon 6:30-8:30pm, TBD Debbie – Mon 3-5pm, Mudd 237 Eun Ji – Wed 2-4pm, Mudd 237 Ilya – by appointment

## Course Schedule for Biochemistry I (Chemistry/Biosci/ChemE 188)

Fall 2006

TTh 9-10:30 am

Braun Auditorium

Text: Biochemistry (5<sup>th</sup> ed.), by Berg, Tymoczko & Stryer

<b>Day</b>	<b>Date</b>	<b>Topic</b>	<b>Reading</b>
T	Sept 26	protein chemistry	Chapter 3
Th	Sept 28	methods in protein chemistry	Chapter 4
T	Oct 3	nucleic acids chemistry	Chapter 5
Th	Oct 5	methods in nucleic acids chemistry	Chapter 6
T	Oct 10	molecular evolution + bioinformatics	Chapter 7
Th	Oct 12	protein structure (Pymol demo)	
T	Oct 17	carbohydrates	Chapter 11
Th	Oct 19	lipids and membranes	Chapter 12
T	Oct 24	protein-ligand recognition	
Th	Oct 26	recognition: the immune system	Chapter 33
T	Oct 31	MIDTERM EXAM	
Th	Nov 2	enzyme kinetics	Chapter 8
T	Nov 7	enzyme inhibition	Chapter 8 + handout
Th	Nov 9	enzyme mechanism	Chapter 9
T	Nov 14	cofactors	Handout
Th	Nov 16	enzyme regulation	Chapter 10
T	Nov 28	signal transduction	Chapter 15
Th	Nov 30	sensory systems	Chapter 32
T	Dec 5	channels and pumps	Chapter 13
Th	Dec 7	photosynthesis	Chapter 19
W	Dec 14	FINAL EXAM	