

**The Scripps Research Institute  
Graduate Program  
Biological Chemistry**

**Contact Information**

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**Course Information**

Semester, Year: Fall, 2014

Meeting day, time: Monday/Wednesday, 8:00a-9:30a

Course Location: Keck

**Schedule**

<b><u>Topic</u></b>	<b><u>Lecture</u></b>
Nucleic Acid Structure and Recognition	9/8, 9/10, 9/15, 9/17
Protein Structure and Folding	9/22, 9/24, 9/29
Enzyme Mechanisms, Kinetics and Inhibition	10/1, 10/6, 10/8, 10/15
<i>Midterm Exam</i>	<i>10/20</i>
Drug Discovery (Screening and Med Chem)	10/27, 10/29
Synthetic Chemical Biology	11/3, 11/5, 11/10, 11/12, 11/17
Small Molecule Probes of Cellular Function	11/19, 11/24, 12/1, 12/3, 12/8

**Grading**

The midterm and final (1.5hr) each constitute 50% of the final grade.

**Texts and Journal References**

*Required:* None

*Useful to consult, on reserve in the library:*

1. *Structure and Mechanism in Protein Science*  
Alan Fersht  
W.H. Freeman
2. *Introduction to Protein Structure*  
Carl Branden & John Tooze  
Second Edition  
Garland Science
3. *Biophysical Chemistry: Part I: The Conformation of Biological Macromolecules* (Their Biophysical Chemistry; PT. 1) Charles R. Cantor & Paul R. Schimmel (ISBN: 0-7167-1188-5)  
W. H. Freeman; 1st edition (April 15, 1980)
4. *Biophysical Chemistry, Part 2: Techniques for the Study of Biological Structure and Function* (Pt. 2) Charles R. Cantor & Paul R. Schimmel (ISBN: 0-7167-1190-7)  
W. H. Freeman; 1st edition (April 15, 1980)
5. *Biophysical Chemistry: Part III: The Behavior of Biological Macromolecules* (Their Biophysical Chemistry; PT. 3) Charles R. Cantor & Paul R. Schimmel (ISBN: 0-7167-1192-3)  
W. H. Freeman; 1st edition (April 15, 1980)
6. *The Molecules of Life*  
John Kuriyan, Boyana Konforti, David Wemmer  
Garland Science
7. *Enzyme Mechanisms*  
Christopher Walsh  
W.H. Freeman