Books for 104b

Course Text


During the course you should read this book cover to cover. I do not expect you to memorize everything in the book, but you should at least have read everything once.

Additional Text (useful, but not required)

Ken Dill & Sarina Bromberg, *Molecular Driving Forces*, Garland publishing Inc.

This is a fantastic resource for the thermodynamics of any chemical or biological system. A true jewel, that just came out. I wish this book had been available when I had to learn thermo for the first time. If you are serious about biophysical chemistry or structural biology or statistical thermodynamics, then this book is for you.
Cantor & Schimmel, *Biophysical Chemistry Part III: The behavior of biological macromolecules*

This is the granddaddy of Biophysical Chemistry textbooks. The book is getting a bit old (publish 1980) and is rather expensive, but it still is the standard textbook and you will find that most professors will have a copy of this book in their office. So if biophysical chemistry will play a big role in your future, and you recently won the lottery, you may want to think about this one.

Gregory Petsko & Dagmar Ringe, *Protein Structure and Function*, Blackwell Publishing

Written by Brandeis’ very own dynamic duo, Greg Petsko and Dagmar Ringe, this book takes a different approach than most textbooks. Instead of presenting one continuous text, the book is set up as a series of stand alone, bite-sized sections about specific topics. A great book, if you quickly want to look up a specific topic, e.g. how G-proteins work or what symmetries are common among enzymes etc.