课程代码（Coursenumber）  
CHM 515, 516  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
  
学期（Semester）  
  
课程描述（Description））  
Comprehensive introduction to major contemporary techniques used to study the structures, functions, and interactions of biological macromolecules, with an emphasis on applications rather than theory. Particular stress is laid on the strengths and limitations of individual methods and the complementarities among them. Methods covered include spectroscopies (UV, florescense, CD, and NMR), X-ray diffraction, hydrodynamic and transport methods (sedimentation and diffusion), and miscellaneous methods.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Principles of Physical Biochemistry (2nd Edition) by Kensal E van Holde, Curtis Johnson, and Pui Shing Ho (Hardcover - Apr. 16, 2005  
ISBN-13: 978-0130464279  
世界各地拥有馆藏的图书馆（OCLC）:209  
2 Physical Biochemistry: Principles and Applications by David Sheehan (Paperback - May 26, 2009)  
ISBN-13: 978-0470856031  
世界各地拥有馆藏的图书馆（OCLC）:156  
3 Physical Biochemistry: Applications to Biochemistry and Molecular Biology by David Freifelder (Paperback - Aug. 15, 1982)  
ISBN-13: 978-0716714446  
4 Physical Chemistry: Principles and Applications in Biological Sciences (4th Edition) by Ignacio Tinoco, Kenneth Sauer, James C. Wang, and Joseph D. Puglisi (Hardcover - Aug. 16, 2001)  
ISBN-13: 978-0130959430  
世界各地拥有馆藏的图书馆（OCLC）:222  
5 Physical Chemistry for the Biological Sciences (Methods of Biochemical Analysis) by Gordon G. Hammes (Hardcover - Apr. 10, 2007)  
ISBN-13: 978-0470122020  
世界各地拥有馆藏的图书馆（OCLC）:322  
6 Physical Biochemistry: Principles and Applications by David Sheehan (Paperback - Aug. 15, 2000)  
ISBN-13: 978-0471986638  
7 Physical Chemistry for the Biosciences by Raymond Chang (Hardcover - Jan. 30, 2005)  
ISBN-13: 978-1891389337  
世界各地拥有馆藏的图书馆（OCLC）:365  
8 Biophysical Chemistry by James P. Allen (Hardcover - Sept. 16, 2008)  
ISBN-13: 978-1405124362  
世界各地拥有馆藏的图书馆（OCLC）:222  
9 Selected Problems in Physical Chemistry: Strategies and Interpretations by Predrag-Peter Ilich (Paperback - June 8, 2010)  
ISBN-13: 978-3642043260  
世界各地拥有馆藏的图书馆（OCLC）:5  
10 Schaum's Outline of Biochemistry, Third Edition (Schaum's Outline Series) by Philip Kuchel, Simon Easterbrook-Smith, Vanessa Gysbers, and J. Mitchell Guss (Paperback - Jan. 11, 2010)  
ISBN-13: 978-0071472272  
世界各地拥有馆藏的图书馆（OCLC）:142  
11 Physical Chemistry for the Chemical and Biological Sciences by Raymond Chang (Hardcover - Mar. 1, 2000)  
ISBN-13: 978-1891389061