课程名（Coursename）  
Chemistry 163. Frontiers in Biophysics  
  
课程代码（Coursenumber）  
3635  
  
课程对象（Audience）  
For Undergraduates and Graduates  
  
开课教师（Teacher）  
Xiaoliang Sunney Xie  
  
学期（Semester）  
Fall term  
  
课程描述（Description））  
Emerging physical tools are changing the way biological problems are addressed. This interdisciplinary course will introduce new experimental advances, microscopy and spectroscopy in particular, together with underlying principles, in molecular and cellular biophysics.  
  
课时信息（Totalhours）  
M., W., 1–2:30. EXAM GROUP: 6, 7  
  
教参信息（Textbookinfo）  
1 Biomembrane Frontiers: Nanostructures, Models, and the Design of Life (Handbook of Modern Biophysics) by Thomas Jue, Subhash H. Risbud, Marjorie L. Longo, and Roland Faller (Hardcover - July 8, 2009)  
ISBN-13: 978-1607613138  
世界各地拥有馆藏的图书馆（OCLC）:169  
2 Handbook of Chemistry, Biochemistry and Biology: New Frontiers by Ludmila N. Shishkina, Gennady E. Zaikov, and Alexander N. Goloschapov (Hardcover - July 2009)  
ISBN-13: 978-3540238904  
世界各地拥有馆藏的图书馆（OCLC）:181  
3 Weak Links: The Universal Key to the Stability of Networks and Complex Systems (The Frontiers Collection) by Peter Csermely (Paperback - June 23, 2009)  
ISBN-13: 978-3642011924  
世界各地拥有馆藏的图书馆（OCLC）:149  
4 Handbook of Chemistry, Biochemistry and Biology: New Frontiers by Ludmila N. Shishkina, Gennady E. Zaikov, and Alexander N. Goloschapov (Hardcover - July 2009)  
ISBN-13: 978-1607418610  
世界各地拥有馆藏的图书馆（OCLC）:13  
5 Advanced Summer School in Physics 2008 Frontiers in Contemporary Physics by Luis Manuel Montaño Zentina, Gabino Torres Vega, Miguel Garcia Rocha, and Luis F. Rojas Ochoa (Hardcover - Dec. 11, 2008)  
ISBN-13: 978-0735406087  
世界各地拥有馆藏的图书馆（OCLC）:45  
6 Frontiers of Cellular Bioenergetics: Molecular Biology, Biochemistry, and Physiopathology by S. Papa, Ferruccio Guerrieri, and Joseph M. Tager (Hardcover - May 31, 1999)  
ISBN-13: 978-0306458514  
7 Frontiers in Neutron Capture Therapy by M. Frederick Hawthorne, Kenneth Shelly, and Richard J. Wiersema (Hardcover - July 1, 2001)  
ISBN-13: 978-0306464423  
世界各地拥有馆藏的图书馆（OCLC）:23  
8 Frontiers in Materials Research (Advances in Materials Research) by Yasunori Fujikawa, Kazuo Nakajima, and Toshio Sakurai (Hardcover - Nov. 17, 2008)  
ISBN-13: 978-3540779674  
9 Frontiers in Biosensorics (Experientia Supplementum) by F.W. Scheller, F. Schubert, and J. Fedrowitz (Hardcover - Dec. 15, 2000)  
ISBN-13: 978-3764354756  
10 The Thermodynamic Machinery of Life (The Frontiers Collection) by Micha Kurzyski (Hardcover - Apr. 11, 2006)  
ISBN-13: 978-3540238881  
世界各地拥有馆藏的图书馆（OCLC）:164  
11 Methods in Insect Sensory Neuroscience (Frontiers in Neuroscience) by Thomas A. Christensen (Hardcover - Dec. 20, 2004)  
ISBN-13: 978-0849320248  
世界各地拥有馆藏的图书馆（OCLC）:150  
12 Frontiers of Photobiology: Proceedings of the 11th International Congress on Photobiology, Kyoto, Japan, 7-12 September 1992 (International Congress Series) by Akihiro Shima and Masamitsu Ichihashi (Hardcover - Mar. 1993)  
ISBN-13: 978-0444897213