课程代码（Coursenumber）  
CHM 543  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
  
学期（Semester）  
  
课程描述（Description））  
Structural biology of human diseases. A critical discussion of protein structures of medical interest such as antibodies, histocompatibility complexes, growth factors, receptors, T-cell activation, G-coupled receptors, viruses, and bacterial toxins. The structural basis of signal transduction is treated in terms of high-resolution crystal structures of kinases and phosphatases. Special emphasis is placed on methods used to obtain and interpret results by X-ray crystallography  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Molecular Dynamics: An Overview of Applications in Molecular Biology (From the Series Topics in Molecular and Structural Biology) - Hardcover (Jan. 4, 1991) by Goodfellow  
ISBN-13: 978-0849371196  
2 Geomechanics of Failures. Advanced Topics - Hardcover (May 31, 2010) by Eduardo E. Alonso, Núria Pinyol, and Alexander M. Puzrin  
ISBN-13: 978-9048135370  
世界各地拥有馆藏的图书馆（OCLC）:4  
3 Advanced Topics in Finite Element Analysis of Structures: With Mathematica and MATLAB Computations - Hardcover (Jan. 3, 2006) by M. Asghar Bhatti  
ISBN-13: 978-0471648079  
世界各地拥有馆藏的图书馆（OCLC）:122  
4 Structural Plasticity: Limit, Shakedown and Dynamic Plastic Analyses of Structures (Advanced Topics in Science and Technology in China) - Hardcover (Aug. 27, 2009) by Mao-Hong Yu, Guo-Wei Ma, and Jian-Chun Li  
ISBN-13: 978-3540881513  
世界各地拥有馆藏的图书馆（OCLC）:133  
5 Advanced Topics in Biotechnology and Plant Biology - Hardcover (Dec. 31, 2008) by C.P. Malik, Bhavneet Kaur, and Chitra Wadhwani  
ISBN-13: 978-8175331440  
世界各地拥有馆藏的图书馆（OCLC）:3  
6 New Techniques of Optical Microscopy and Microspectroscopy (Topics in Molecular and Structural Biology) - Hardcover (Jan. 18, 1991) by Cherry  
ISBN-13: 978-0849371172  
7 Water and Biological Macromolecules (Topics on Molecular and Structural Biology) - Hardcover (Aug. 16, 1993) by Westhof  
ISBN-13: 978-0849375705  
8 Grammars and Automata for String Processing: From Mathematics and Computer Science to Biology, and Back (Topics in Computer Mathematics) - Hardcover (Jan. 16, 2003) by Carlos Martin-Vide and Victor Mitrana  
ISBN-13: 978-0415298858  
世界各地拥有馆藏的图书馆（OCLC）:108  
9 Advanced Topics in Biomathematics: Proceedings of the International Conference on Mathematical Biology - Hardcover (Sept. 1998) by Lansun Chen, Shigui Ruan, and Jun Zhu  
ISBN-13: 978-9810235185  
10 Advanced Structural Inorganic Chemistry (International Union of Crystallography Texts on Crystallography) - Paperback (June 2, 2008) by Wai-Kee Li, Gong-Du Zhou, and Thomas Mak  
ISBN-13: 978-0199216956  
世界各地拥有馆藏的图书馆（OCLC）:240  
11 The Mechanics of Scour in the Marine Environment - Hardcover (June 15, 2002) by B. Mutlu Sumer and Jorgen Fredsoe  
ISBN-13: 978-9810249304  
世界各地拥有馆藏的图书馆（OCLC）:88