课程代码（Coursenumber）：  
3B.   
  
课程名（Coursename） ：  
Chemical Structure and Reactivity.  
  
学分（credit) ： (3) Students will receive no credit for 3B after taking 112B.   
  
课程设置（course setting）：Three hours of lecture per week.  
  
选课要求（prerequisite）:3A with a grade of C- or better.  
  
课程描述（Description）：Conjugation, aromatic chemistry, carbonyl compounds, carbohydrates, amines, carboxylic acids, amino acids, peptides, proteins, and nucleic acid chemistry. Ultraviolet spectroscopy and mass spectrometry will be introduced. (F, S)  
  
教参信息（Textbookinfo）:  
1 Chemical Structure and Reactivity: An Integrated Approach by James Keeler and Peter Wothers (Paperback - July 15, 2008)  
ISBN-13: 978-0199289301   
世界各地拥有馆藏的图书馆（OCLC）:152  
2 Chemical Kinetics: From Molecular Structure to Chemical Reactivity by Luis G Arnaut, Sebastiao Jose Formosinho, and Hugh Burrows (Hardcover - Jan. 4, 2007)  
ISBN-13: 978-0444521866   
世界各地拥有馆藏的图书馆（OCLC）:169  
3 An Ordering Concept on the Basis of Alternative Principles in Chemistry: Design of Chemicals and Chemical Reactions by Differentiation and Compensati (Reactivity and Structure) by P. Heimbach and T. Bartik (Hardcover - Jan. 1990)  
ISBN-13: 978-0387511986   
4 Metal Dihydrogen and -Bond Complexes - Structure, Theory, and Reactivity (Modern Inorganic Chemistry) by Gregory J. Kubas (Hardcover - Aug. 31, 2001)  
ISBN-13: 978-0306464652   
世界各地拥有馆藏的图书馆（OCLC）:179  
5 Modelling of Structure and Reactivity in Zeolites by C. R. A. Catlow (Hardcover - Nov. 1992)  
ISBN-13: 978-0121641405   
6 Molecular Structure and Energetics, Structure and Reactivity (Molecular Structure and Energetics, Vol 7) (Volume 7) by Joel F. Liebman and Arthur Greenberg (Hardcover - Jan. 10, 1989)  
ISBN-13: 978-0471187233   
7 Zeolite Microporous Solids: Synthesis, Structure, and Reactivity (NATO Science Series C: (closed)) by E.G. Derouane, Francisco Lemos, Claude Naccache, and Fernando Ramôa Ribeiro (Hardcover - Nov. 30, 1991)  
ISBN-13: 978-0792315339   
8 Modeling Structural Effects on Reactivities, Properties and Bioactivities by Statistical Methods (Wiley Series in Chemical, Computational, and Systems Biology) by Marvin Charton (Hardcover - July 6, 2010)  
ISBN-13: 978-0470487495   
世界各地拥有馆藏的图书馆（OCLC）:1  
9 Quantum Mechanical Electronic Structure Calculations with Chemical Accuracy (Understanding Chemical Reactivity) by S. Langhoff (Hardcover - Feb. 28, 1995)  
ISBN-13: 978-0792332640   
10 Density Functional Theory of Molecules, Clusters, and Solids (Understanding Chemical Reactivity) by D.E. Ellis (Hardcover - Nov. 30, 1994)  
ISBN-13: 978-0792330837