课程名（Coursename）  
Principles of Chemical Science  
  
课程代码（Coursenumber）  
 5.111  
  
课程对象（Audience）  
Undergraduate Chemistry  
  
选课前提（prerequisite）  
None  
  
单元（units）  
5-0-7  
  
添加至时间表 （add to schedule）  
Lecture: MWF12 (4-270) Recitation: TR10 (4-257) or TR12 (4-257) or TR1 (4-257) or TR2 (4-257) or TR3 (4-257) +final  
  
开课教师（Teacher）  
Fall: K. A. Nelson, A. Klibanov  
Spring: E. Taylor, C. Drennan  
  
学期（Semester）  
fall term  
  
课程描述（Description）  
Introduction to chemistry, with emphasis on basic principles of atomic and molecular electronic structure, thermodynamics, acid-base and redox equilibria, chemical kinetics, and catalysis. Introduction to the chemistry of biological, inorganic, and organic molecules.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Chemical Principles with OWL, Enhanced Edition by Steven S. Zumdahl (Hardcover - May 21, 2010)  
Publisher: Brooks Cole; 6 edition (May 21, 2010)   
ISBN-13: 978-1111425869   
世界各地拥有馆藏的图书馆（OCLC）:1  
2 Elementary Principles of Chemical Processes by Richard M. Felder and Ronald W. Rousseau (Hardcover - Dec. 15, 2004)  
Publisher: Wiley; 3 edition (December 15, 2004)   
ISBN-13: 978-0471687573   
世界各地拥有馆藏的图书馆（OCLC）:89  
3 Elementary Principles of Chemical Processes, 3rd Edition 2005 Edition Integrated Media and Study Tools, with Student Workbook by Richard M. Felder and Ronald W. Rousseau (Hardcover - Feb. 2, 2005)  
Publisher: Wiley; 3 edition (February 2, 2005)   
ISBN-13: 978-0471720638   
世界各地拥有馆藏的图书馆（OCLC）:89  
4 Chemical Principles: The Quest for Insight by Peter Atkins and Loretta Jones (Hardcover - Aug. 1, 2007)  
Publisher: W. H. Freeman; 4th edition (August 1, 2007)   
ISBN-13: 978-1429209656   
世界各地拥有馆藏的图书馆（OCLC）:4  
5 Introduction to Chemical Principles (10th Edition) by H. Stephen Stoker (Paperback - Jan. 14, 2010)  
Publisher: Prentice Hall; 10 edition (January 14, 2010)   
ISBN-13: 978-0321666048   
世界各地拥有馆藏的图书馆（OCLC）:8  
6 Chemical Principles & Study Guide/Solutions Manual by Peter Atkins and John Krenos (Hardcover - May 4, 2007)  
Publisher: W. H. Freeman; Fourth Edition edition (May 4, 2007)   
ISBN-13: 978-1429212595   
世界各地拥有馆藏的图书馆（OCLC）:2  
7 Study Guide for Zumdahl's Chemical Principles by Steven S. Zumdahl (Paperback - Jan. 22, 2008)  
Publisher: Brooks Cole; 6 edition (January 22, 2008)   
ISBN-13: 978-0618946587   
世界各地拥有馆藏的图书馆（OCLC）:7  
8 Chemical Principles by Peter Atkins and Loretta Jones (Hardcover - Dec. 11, 2009)  
Publisher: W. H. Freeman; Fifth Edition edition (December 11, 2009)   
ISBN-13: 978-1429219556   
世界各地拥有馆藏的图书馆（OCLC）:22  
9 Student Workbook to accompany Elementary Principles of Chemical Processes by Richard M. Felder and Ronald W. Rousseau (Paperback - Jan. 20, 2005)  
Publisher: Wiley; 3 edition (January 20, 2005)   
ISBN-13: 978-0471697596   
世界各地拥有馆藏的图书馆（OCLC）:89  
10 The Principles of Chemical Equilibrium: With Applications in Chemistry and Chemical Engineering by Kenneth George Denbigh (Paperback - Apr. 30, 1981)  
Publisher: Cambridge University Press; 4 edition (April 30, 1981)   
ISBN-13: 978-0521281508