课程代码（Coursenumber）  
Chemistry 6650 (665)  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
Professor Dichtel  
  
学期（Semester）  
Fall  
  
课程描述（Description））  
Grades will be based on two midterm examinations (200 points  
each, 10/15 and 11/19), a final exam (400 points, 12/19), as well as  
occasional 10 minute quizzes (100 points total) given at the start of  
class. Problem sets will be assigned and graded on a satisfactory /  
unsatisfactory basis. Students are welcome to work collaboratively  
on problem sets if helpful.  
  
课程提纲（Syllabus）  
The course will cover the following general topics:  
I Goals and Philosophy  
Survey of reactive intermediates  
“Electron pushing” mechanistic analysis  
II Thermochemistry and Kinetics  
Thermodynamics, equilibria, acidity  
Kinetics, activation energy, reaction coordinate diagrams  
Catalysis, isotope effects  
Stereochemistry  
Qualitative MO Theory  
III Reactive Intermediates  
Concerted Reactions  
Carbocations, carbanions, carbenes  
Strained and highly energetic compounds  
Radicals and chain reactions  
V Noncovalent Bonding and Supramolecular Chemistry  
  
课时信息（Totalhours）

教参信息（Textbookinfo）  
1 Chemistry: Concepts and Problems: A Self-Teaching Guide (Wiley Self-Teaching Guides) by Clifford C. Houk and Richard Post (Paperback - Feb 1996)   
ISBN-13: 978-0471121206   
2. Chemistry by Steven S. Zumdahl and Susan A. Zumdahl (Hardcover - Dec 3, 2008)   
ISBN-13: 978-0547125329  
世界各地拥有馆藏的图书馆（OCLC）:55  
3.Chemistry for Dummies by John T. Moore (Paperback - Nov 2002)   
ISBN-13: 978-0764554308  
世界各地拥有馆藏的图书馆（OCLC）:1240  
4.Homework Helpers: Chemistry by Greg Curran (Paperback - Mar 2004) ISBN-13: 978-1564147219   
世界各地拥有馆藏的图书馆（OCLC）:19  
5.Chemistry: The Central Science (11th Edition) by Theodore E. Brown, H. Eugene LeMay, Bruce E. Bursten, and Catherine Murphy (Hardcover - Jan 8, 2008)   
ISBN-13: 978-0136006176   
世界各地拥有馆藏的图书馆（OCLC）:164  
6.The Cartoon Guide to Chemistry (Cartoon Guide To...) by Larry Gonick and Craig Criddle (Paperback - May 3, 2005)  
ISBN-13: 978-0060936778   
世界各地拥有馆藏的图书馆（OCLC）:1143  
7.General Chemistry by Linus Pauling (Paperback - Apr 1, 1988)   
ISBN-13: 978-0486656229   
8.The Complete Idiot's Guide to Chemistry, 2nd Edition by Ian Guch (Paperback - Jun 27, 2006)   
ISBN-13: 978-1592575145   
世界各地拥有馆藏的图书馆（OCLC）:526  
9.Chemistry: An Introduction to General, Organic, & Biological Chemistry (10th Edition) by Karen Timberlake (Hardcover - Feb 18, 2008)   
ISBN-13: 978-0136019701   
世界各地拥有馆藏的图书馆（OCLC）:113  
10.Chemistry by Steven S. Zumdahl and Susan A. Zumdahl (Hardcover - Jan 9, 2006)   
ISBN-13: 978-0618528448   
世界各地拥有馆藏的图书馆（OCLC）:65