课程代码（Coursenumber）  
Chemistry 2150 (215)  
  
课程对象（Audience）  
Primarily for Undergraduates  
  
开课教师（Teacher）  
Professor Davis  
  
学期（Semester）  
Fall  
  
课程描述（Description））  
This course is an honors introductory chemistry course. Students should have considerable experience (typically two years of high school chemistry, including AP), and interest in chemistry. It is assumed that students have a firm foundation in trigonometry, the elementary concepts of atoms, molecules, moles, balancing equations, and applications of the ideal gas law (see Chapters 2-5 in Zumdahl). A calculus course at the level of MATH 1110 or 1910 is a co-requisite. Note that Chemistry 2070 (Fall) and 2080 (Spring) is the standard Chemistry sequence. Because Chemistry 2150 and 2080 cover essentially the same material, students cannot get credit for both courses. The normal honors freshman sequence is Chemistry 2150-2160. Chemistry 2160 presents a unified theory of the chemical bond of both covalent and ionic compounds in both organic and inorganic chemistry. If Chemistry 2150 is followed instead by Chemistry 2090 (the version of Chemistry 2070 offered to engineering students), any AP Chemistry credit is forfeited.  
  
课程提纲（Syllabus）  
We will cover most of the material from the following chapters, in the order given below. We will also cover some material from Chapters 4, 5, 12, and 21.  
9. Energy, Enthalpy and Thermochemistry  
6. Chemical Equilibrium  
7. Acids and Bases  
8. Applications of Aqueous Equilibria  
10. Spontaneity, Entropy and Free Energy  
11. Electrochemistry  
15. Chemical Kinetics  
16. Liquids and Solids  
17. Properties of Solutions  
  
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