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