课程代码（Coursenumber）  
CHEM 221  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
Du Bois, J.  
  
学期（Semester）  
Terms: Aut  
  
课程描述（Description））  
Molecular orbital theory and orbital symmetry. Thermochemistry and thermochemical kinetics. Unimolecular reaction rate theory. Methods of determining organic reaction mechanisms from a theoretical and experimental point of view.  
  
课时信息（Totalhours）  
Units: 3  
  
教参信息（Textbookinfo）  
1 Advanced Organic Chemistry: Part A: Structure and Mechanisms (Advanced Organic Chemistry / Part A: Structure and Mechanisms) by Francis A. Carey and Richard J. Sundberg (Paperback - June 13, 2007)  
ISBN-13: 978-0387683461  
世界各地拥有馆藏的图书馆（OCLC）:228  
2 Advanced Organic Chemistry: Part B: Reaction and Synthesis (Advanced Organic Chemistry / Part B: Reactions and Synthesis) by Francis A. Carey and Richard J. Sundberg (Paperback - Sept. 6, 2007)  
ISBN-13: 978-0387683546  
世界各地拥有馆藏的图书馆（OCLC）:228  
3 March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure by Michael B. Smith and Jerry March (Hardcover - Jan. 16, 2007)  
ISBN-13: 978-0471720911  
世界各地拥有馆藏的图书馆（OCLC）:474  
4 Advanced Organic Chemistry: Reaction Mechanisms (Advanced Organic Chemistry Series) by Reinhard Bruckner (Hardcover - July 26, 2001)  
ISBN-13: 978-0121381103  
世界各地拥有馆藏的图书馆（OCLC）:335  
5 Modern Physical Organic Chemistry by Eric V. Anslyn and Dennis A. Dougherty (Hardcover - July 15, 2005)  
ISBN-13: 978-1891389313   
世界各地拥有馆藏的图书馆（OCLC）:442  
6 Advanced Organic Chemistry (2nd Edition) by Bernard Miller (Paperback - July 21, 2003)  
ISBN-13: 978-0130655882  
世界各地拥有馆藏的图书馆（OCLC）:202  
7 Organic Chemistry by Jonathan Clayden, Nick Greeves, Stuart Warren, and Peter Wothers (Paperback - Aug. 31, 2000)  
ISBN-13: 978-0198503460  
8 Organic Structure Determination Using 2-D NMR Spectroscopy: A Problem-Based Approach (Advanced Organic Chemistry) by Jeffrey H. Simpson (Paperback - July 24, 2008)  
ISBN-13: 978-0120885220  
世界各地拥有馆藏的图书馆（OCLC）:329  
9 Strategic Applications of Named Reactions in Organic Synthesis by Laszlo Kurti and Barbara Czako (Paperback - Mar. 18, 2005)  
ISBN-13: 978-0124297852  
世界各地拥有馆藏的图书馆（OCLC）:489  
10 Transition Metals, Quantitative Kinetics & Applied Organic Chemistry (Nelson Advanced Science) by Brian Chapman (Paperback - June 30, 2004)  
ISBN-13: 978-0748776580  
世界各地拥有馆藏的图书馆（OCLC）:13