课程名（Coursename）  
Control in Organic Chemistry  
  
课程代码（Coursenumber）  
C3  
  
课程对象（Audience）  
Undergraduate  
  
开课教师（Teacher）  
Dr J. M. Goodman and Dr D. R. Spring  
  
学期（Semester）  
L 4–8  
  
课程描述（Description））  
What controls organic reactions? Is it the reagent, the functional group, the catalyst? Questions like this will be explored in the course leading to an analysis of the different types of control - chemo- regio- and stereo- (not enantio-). Reactions you have met earlier this year will be examined in a new light. Building on these more familiar examples, the mechanisms of new reactions will be introduced. This course will involve a fundamental analysis of organic chemistry and have a strong mechanistic content. This analysis is vital for a mature understanding of the whole of Part II organic chemistry.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Spectrometric Identification of Organic Compounds by Robert M. Silverstein, Francis X. Webster, and David Kiemle (Hardcover - Jan. 14, 2005)  
ISBN-13: 978-0471393627  
世界各地拥有馆藏的图书馆（OCLC）:421  
2 Structure Determination of Organic Compounds: Tables of Spectral Data by Ernö Pretsch, Philippe Bühlmann, and Martin Badertscher (Paperback - Apr. 23, 2009)  
ISBN-13: 978-3540938095  
世界各地拥有馆藏的图书馆（OCLC）:82  
3 The Systematic Identification of Organic Compounds by Ralph L. Shriner, Christine K. F. Hermann, Terence C. Morrill, and David Y. Curtin (Paperback - Dec. 9, 2008)  
ISBN-13: 978-0471215035  
世界各地拥有馆藏的图书馆（OCLC）:318  
4 Crystallization of Organic Compounds: An Industrial Perspective by Hsien-Hsin Tung, Edward L. Paul, Michael Midler, and James A. McCauley (Hardcover - June 9, 2009)  
ISBN-13: 978-0471467809  
世界各地拥有馆藏的图书馆（OCLC）:66  
5 Modern Organic Synthesis in the Laboratory by Jie Jack Li, Chris Limberakis, and Derek A. Pflum (Paperback - Sept. 10, 2007)  
ISBN-13: 978-0195187991  
世界各地拥有馆藏的图书馆（OCLC）:332  
6 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  
7 The Synthetic Organic Chemist's Companion by Michael C. Pirrung (Paperback - July 10, 2007)  
ISBN-13: 978-0470107072  
世界各地拥有馆藏的图书馆（OCLC）:457  
8 Organic Synthesis: The Disconnection Approach by Stuart Warren and Paul Wyatt (Paperback - Jan. 14, 2009)  
ISBN-13: 978-0470712368  
世界各地拥有馆藏的图书馆（OCLC）:177  
9 Organic Structure Analysis (Topics in Organic Chemistry) by Phillip Crews, Jaime Rodriguez, and Marcel Jaspars (Hardcover - Oct. 29, 2009)  
ISBN-13: 978-0195336047  
世界各地拥有馆藏的图书馆（OCLC）:118  
10 Workbook for Organic Synthesis: The Disconnection Approach by Stuart Warren and Paul Wyatt (Paperback - Jan. 19, 2010)  
ISBN-13: 978-0470712269  
世界各地拥有馆藏的图书馆（OCLC）:35  
11 Environmental Organic Chemistry by Rene P. Schwarzenbach, Philip M. Gschwend, and Dieter M. Imboden (Paperback - June 15, 2002)  
ISBN-13: 978-0471357506  
世界各地拥有馆藏的图书馆（OCLC）:387  
12 Greene's Protective Groups in Organic Synthesis by Peter G. M. Wuts and Theodora W. Greene (Hardcover - Oct. 30, 2006)  
ISBN-13: 978-0471697541  
世界各地拥有馆藏的图书馆（OCLC）:543