课程代码（Coursenumber）  
CHM 371  
  
课程对象（Audience）  
Primarily for Undergraduates  
  
开课教师（Teacher）  
M. Kelly  
  
学期（Semester）  
Fall  
  
课程描述（Description））  
Discusses the principles of experimental design, data acquisition, analysis and interpretation, and the presentation of experimental results. Students are exposed to a broad range of quantitative laboratory methods in preparation for thesis work in chemistry. Typical laboratory exercises include synthesis, physical characterization, spectroscopy, kinetics, thermodynamics, electronics and instrument design. Lectures on experimental design, data analysis, interpretation, and presentation. Two lectures, two three-hour laboratories.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Experimental Physical Chemistry: A Laboratory Textbook by Arthur Halpern and George McBane (Hardcover - June 30, 2006)  
ISBN-13: 978-0716717355  
世界各地拥有馆藏的图书馆（OCLC）:68  
2 Experimental Physical Chemistry: A Laboratory Textbook (2nd Edition) by Arthur M. Halpern (Spiral-bound - Apr. 29, 1997)  
ISBN-13: 978-0136542032  
3 Physical Chemistry, Explorations in Physical Chemistry 2.0 Access Card, Experimental Physical Chemistry & Student Solutions Manual by Peter Atkins, Arthur Halpern, Julio de Paula, and Valerie Walters (Hardcover - July 15, 2006)  
ISBN-13: 978-0716789970  
世界各地拥有馆藏的图书馆（OCLC）:2  
4 Physical Chemistry, Explorations in Physical Chemistry 2.0 Access Card & Experimental Physical Chemistry by Peter Atkins, Valerie Walters, Arthur Halpern, and George P. McCabe (Hardcover - June 30, 2006)  
ISBN-13: 978-0716794745  
世界各地拥有馆藏的图书馆（OCLC）:3  
5 Experimental Inorganic/Physical Chemistry: An Investigative, Integrated Approach to Practical Project Work (Horwood Series in Chemical Science) by M. A. Malati (Paperback - Aug. 1999)  
ISBN-13: 978-1898563471  
6 Charge Injection Systems: Physical Principles, Experimental and Theoretical Work (Heat and Mass Transfer) by Dr. John Shrimpton (Hardcover - June 9, 2009)  
ISBN-13: 978-3642002939  
世界各地拥有馆藏的图书馆（OCLC）:31  
7 Experimental Design: A Chemometric Approach, Volume 11, Second Edition (Data Handling in Science and Technology) by S.N. Deming and S.L. Morgan (Hardcover - June 18, 1993)  
ISBN-13: 978-0444891112  
8 Advances in Surface Science, Volume 38 (Experimental Methods in the Physical Sciences) by Marc De Graef and Thomas Lucatorto (Hardcover - Oct. 29, 2001)  
ISBN-13: 978-0124759855  
世界各地拥有馆藏的图书馆（OCLC）:256  
9 Enantioselective Organocatalysis: Reactions and Experimental Procedures by Peter I. Dalko (Hardcover - Apr. 20, 2007)  
ISBN-13: 978-3527315222  
世界各地拥有馆藏的图书馆（OCLC）:148  
10 Chemistry of Structure - Function Relationships in Cheese (Advances in Experimental Medicine and Biology) by Edyth L. Malin and Michael H. Tunick (Hardcover - June 30, 1995)  
ISBN-13: 978-0306449826  
11 Measurement of the Thermodynamic Properties of Single Phases, Volume VI (Experimental Thermodynamics) by Anthony Goodwin, KN Marsh, and WA Wakeham (Hardcover - July 17, 2003)  
ISBN-13: 978-0444509314  
世界各地拥有馆藏的图书馆（OCLC）:90  
12 Experimental Results for Dippr 1990-91 Projects on Phase Equilibria and Pure Components Properties (Dippr Data Series, No. 2, 1994) by John R. Cunningham and Dennis K. Jones (Hardcover - Sept. 1994) - Illustrated  
ISBN-13: 978-0816906574