课程代码（Coursenumber）  
CHM 405  
  
课程对象（Audience）  
Primarily for Undergraduates  
  
开课教师（Teacher）  
A.    Selloni  
  
学期（Semester）  
Fall  
  
课程描述（Description））  
Introduction to quantum theory, atomic and molecular structure, and spectroscopy. This course will emphasize the development of fundamental underlying principles and illustrative examples. Prerequisites: 202, 204, or 215; MAT 201 or 203 (required); MAT 202 or 204 (very helpful, even if taken concurrently); PHY 103 (may be taken concurrently) or AP Physics. Three lectures, one preceptorial  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Physical Chemistry: A Molecular Approach by Donald A. McQuarrie and John D. Simon (Hardcover - July 1, 1997)  
ISBN-13: 978-0935702996  
2 Quantum Mechanics in Chemistry (Physical Chemistry Textbook Series) by Melvin H. Hanna (Paperback - Feb. 1981)  
ISBN-13: 978-0805337051  
3 Introduction to Quantum Mechanics with Applications to Chemistry by Linus Pauling and E. Bright Wilson Jr. (Paperback - Mar. 1, 1985)  
ISBN-13: 978-0486648712  
4 Inorganic Chemistry by James House and James E. House (Paperback - Aug. 8, 2008)  
ISBN-13: 978-0123567864  
世界各地拥有馆藏的图书馆（OCLC）:207  
5 Computational Chemistry: Introduction to the Theory and Applications of Molecular and Quantum Mechanics by Errol Lewars (Paperback - June 1, 2010)  
ISBN-13: 978-9048138616  
世界各地拥有馆藏的图书馆（OCLC）:2  
6 Compendium of Quantum Physics: Concepts, Experiments, History and Philosophy by Daniel Greenberger, Klaus Hentschel, and Friedel Weinert (Hardcover - Sept. 9, 2009)  
ISBN-13: 978-3540706229  
世界各地拥有馆藏的图书馆（OCLC）:169  
7 Quantum Mechanics in Chemistry (Topics in Physical Chemistry) by Jack Simons and Jeff Nichols (Hardcover - Jan. 30, 1997)  
ISBN-13: 978-0195082005  
8 Quantum Mechanics in Chemistry by George C. Schatz and Mark A. Ratner (Paperback - Jan. 28, 2002)  
ISBN-13: 978-0486420035  
世界各地拥有馆藏的图书馆（OCLC）:77  
9 Molecular Quantum Mechanics by Peter Atkins and Ronald Friedman (Paperback - Feb. 17, 2005)  
ISBN-13: 978-0199274987  
世界各地拥有馆藏的图书馆（OCLC）:170  
10 Beyond Measure: Modern Physics, Philosophy, and the Meaning of Quantum Theory by Jim Baggott and Peter Atkins (Paperback - Jan. 1, 2004)  
ISBN-13: 978-0198525363  
世界各地拥有馆藏的图书馆（OCLC）:470  
11 Chemical Modeling: From Atoms to Liquids by Alan Hinchliffe (Hardcover - Nov. 1, 1999)  
ISBN-13: 978-0471999034