课程名（Coursename）  
Chemistry 164r. Quantum Chemistry via density functionals: theory and applications  
  
课程代码（Coursenumber）  
8277  
  
课程对象（Audience）  
For Undergraduates and Graduates  
  
开课教师（Teacher）  
Instructor to be determined  
  
学期（Semester）  
Fall term  
  
课程描述（Description））  
What are "density functionals," where do they come from, and why do they work? This course provides a solid introduction to modern DFT methods (and time-dependent DFT), with applications to various chemical problems. Practical calculations on problems of interest to the student’s research subject are encouraged.  
  
课时信息（Totalhours）  
Hours to be arranged.  
  
教参信息（Textbookinfo）  
1 Density Functional Theory: A Practical Introduction - Hardcover (Apr. 13, 2009) by David Sholl and Janice A Steckel  
ISBN-13: 978-0470373170  
世界各地拥有馆藏的图书馆（OCLC）:116  
2 Computational Chemistry: Introduction to the Theory and Applications of Molecular and Quantum Mechanics - Paperback (June 1, 2010) by Errol G. Lewars  
ISBN-13: 978-9048138616  
世界各地拥有馆藏的图书馆（OCLC）:2  
3 A Chemist's Guide to Density Functional Theory, 2nd Edition - Paperback (July 11, 2001) by Wolfram Koch and Max C. Holthausen  
ISBN-13: 978-3527303724  
世界各地拥有馆藏的图书馆（OCLC）:247  
4 Electrons and Phonons in Semiconductor Multilayers - Hardcover (May 25, 2009) by B. K. Ridley  
ISBN-13: 978-0521516273  
世界各地拥有馆藏的图书馆（OCLC）:123  
5 Adventures in Chemical Physics: A Special Volume of Advances in Chemical Physics - Hardcover (Nov. 25, 2005) by R. Stephen Berry, Joshua Jortner, and Stuart A. Rice  
ISBN-13: 978-0471738428  
世界各地拥有馆藏的图书馆（OCLC）:121