课程代码（Coursenumber）：  
120A.   
  
课程名（Coursename）：  
Physical Chemistry.   
  
学分（credit) ： (3) Students will receive two units of credit for 120A after taking 130B.   
  
课程设置（course setting）： Three hours of lecture per week.   
  
选课要求（prerequisite）：4B or equivalent; Math 53; Physics 7B or 8B; Math 54 (may be taken concurrently).  
  
课程描述（Description）：Kinetic, potential, and total energy of particles  
and forces between them; principles of quantum theory, including one-electron and many-electron atoms. The course will be divided (fall semester) into a section for chemistry majors and one for chemical biology majors, both meeting at the same time, covering topics of interest to each group relating to molecules and chemical bonding, electrical properties, intermolecular interactions, and elementary spectroscopy. (F, S)  
  
教参信息（Textbookinfo）:  
1 Physical Chemistry by Peter Atkins and Julio de Paula (Hardcover - Mar. 10, 2006)  
ISBN-13: 978-0716787594   
世界各地拥有馆藏的图书馆（OCLC）:95  
2 Physical Chemistry: A Molecular Approach by Donald A. McQuarrie and John D. Simon (Hardcover - July 1, 1997)  
ISBN-13: 978-0935702996  
3 Physical Chemistry for the Biosciences by Raymond Chang (Hardcover - Jan. 30, 2005)  
ISBN-13: 978-1891389337  
世界各地拥有馆藏的图书馆（OCLC）:361  
4 Student Solutions Manual to accompany Physical Chemistry by Ira N. Levine (Paperback - July 11, 2008)  
ISBN-13: 978-0072538632  
世界各地拥有馆藏的图书馆（OCLC）:10  
5 Physical Chemistry by Peter Atkins and Julio dePaula (Hardcover - Dec. 18, 2009)  
ISBN-13: 978-1429218122  
世界各地拥有馆藏的图书馆（OCLC）:20  
6 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）:439  
7 Problems & Solutions to Accompany McQuarrie - Simon Physical Chemistry: A Molecular Approach by Heather Cox (Paperback - Oct. 1, 1997)  
ISBN-13: 978-0935702439   
8 Schaum's Outline of Physical Chemistry (2nd Edition) by Clyde R. Metz (Paperback - July 1, 1988)  
ISBN-13: 978-0070417151  
9 Physical Chemistry by Ira N. Levine (Hardcover - May 9, 2008)  
ISBN-13: 978-0072538625  
世界各地拥有馆藏的图书馆（OCLC）:96  
10 Applied Mathematics for Physical Chemistry (3rd Edition) by James R. Barrante (Paperback - Sept. 25, 2003)  
ISBN-13: 978-0131008458  
世界各地拥有馆藏的图书馆（OCLC）:156