课程代码（Coursenumber）：

CHEM BC 3282y

课程名（Coursename） ：

Biological Chemistry

课程内容介绍（course content introduction）：Introduction to biochemical building blocks, macromolecules, and metabolism. Structures of amino acids, lipids, carbohydrates, nucleic acids. Protein structure and folding. Enzyme mechanisms, kinetics, allostery. Membranes. Protein and genetic engineering. Catabolism and anabolism with emphasis on chemical intermediates, metabolic energy, catalysis by specific enzymes, regulation.

选课条件（Prerequisites）: One year of organic chemistry, one year of biology.

课程时间（course time）：Lecture: MWF 9:00-9:50. Problem section: W 12:00-12:50.

学分（credit）：3.5 points

教参信息（Textbookinfo）:

1 The Organic Chemistry of Biological Pathways by John McMurry and Tadhg Begley (Hardcover - Feb. 2005)

Publisher: Roberts & Company Publishers; 1 edition (February 2005)

ISBN-13: 978-0974707716

世界各地拥有馆藏的图书馆（OCLC）:319

2 Fundamentals of General, Organic, and Biological Chemistry (6th Edition) by John McMurry, David S. Ballantine, Carl A. Hoeger, and Virginia E. Peterson (Hardcover - Feb. 16, 2009)

Publisher: Prentice Hall; 6 edition (February 16, 2009)

ISBN-13: 978-0136054504

世界各地拥有馆藏的图书馆（OCLC）:56

3 General, Organic, and Biological Chemistry by Janice G. Smith (Hardcover - Jan. 2010)

Publisher: McGraw-Hill (January 2010)

ISBN-13: 978-0073026572

世界各地拥有馆藏的图书馆（OCLC）:27

4 Chemistry: An Introduction to General, Organic, & Biological Chemistry (10th Edition) by Karen Timberlake (Hardcover - Feb. 18, 2008)

Publisher: Prentice Hall; 10 edition (February 18, 2008)

ISBN-13: 978-0136019701

世界各地拥有馆藏的图书馆（OCLC）:96

5 General, Organic, and Biological Chemistry: An Integrated Approach by Laura D. Frost, S. Todd Deal, and Karen C. Timberlake (Hardcover - Jan. 15, 2010)

Publisher: Prentice Hall; 1 edition (January 15, 2010)

ISBN-13: 978-0805381788

世界各地拥有馆藏的图书馆（OCLC）:11

6 General, Organic, and Biological Chemistry by H. Stephen Stoker (Hardcover - Dec. 15, 2008)

Publisher: Brooks Cole; 5 edition (December 15, 2008)

ISBN-13: 978-0547152813

世界各地拥有馆藏的图书馆（OCLC）:19

7 Laboratory Manual for General, Organic, and Biological Chemistry by Karen C. Timberlake (Spiral-bound - June 16, 2006)

Publisher: Prentice Hall; 2 Lab edition (June 16, 2006)

ISBN-13: 978-0805349047

世界各地拥有馆藏的图书馆（OCLC）:8

8 General Organic and Biological Chemistry by Kenneth William Raymond (Hardcover - Dec. 14, 2009)

Publisher: Wiley; 3 edition (December 14, 2009)

ISBN-13: 978-0470504765

世界各地拥有馆藏的图书馆（OCLC）:19

9 Study Guide & Full Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry by John McMurry, Susan E McMurry, David Ballantine, and Carl A. Hoeger (Paperback - May 18, 2009)

Publisher: Prentice Hall; 6 edition (May 18, 2009)

ISBN-13: 978-0321612380

世界各地拥有馆藏的图书馆（OCLC）:3

10 General Organic and Biological Chemistry: Study Guide With Answers to Selected Problems by H. Stephen Stoker (Paperback - Feb. 6, 2006)

Publisher: Houghton Mifflin Harcourt (HMH); 4 Stg edition (February 6, 2006)

ISBN-13: 978-0618606092

世界各地拥有馆藏的图书馆（OCLC）:11