课程名（Coursename）

Biological Chemistry I

课程代码（Coursenumber）

5.07J

课程对象（Audience）

Undergraduate Rest Elec in Sci ﹠ Tech

选课前提（prerequisite）

5.12

单元（units）

4-0-8

添加至时间表 （add to schedule）

开课教师（Teacher）

J. Essigmann, J. Stubbe

学期（Semester）

fall term

课程描述（Description）

Chemical and physical properties of the cell and its building blocks. Structures of proteins and principles of catalysis. The chemistry of organic/inorganic cofactors required for chemical transformations within the cell. Basic principles of metabolism and regulation in pathways, including glycolysis, gluconeogenesis, fatty acid synthesis/degradation, pentose phosphate pathway, Krebs cycle and oxidative phosphorylation, DNA replication, and transcription and translation.

课时信息（Totalhours）

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）:97

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 Schaum's Outline Of General, Organic and Biological Chemistry by George Odian and Ira Blei (Paperback - Jan. 1, 1994)

Publisher: McGraw-Hill; 1 edition (January 1, 1994)

ISBN-13: 978-0070476097

9 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

10 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