课程名（Coursename）

Laboratory Chemistry

课程代码（Coursenumber）

 5.310

课程对象（Audience）

Undergraduate

选课前提（prerequisite）

None. Coreq: 5.12

单元（units）

2-8-2

添加至时间表 （add to schedule）

1st lec mandatory. Compulsory: Mandatory Safety Lec 2/3 1pm (4-370) or Mandatory Safety Lec 2/2 1pm (10-250) Lecture: TR10 (4-370) Lab: MW1-5 (4-430) or TR1-5 (4-430)

开课教师（Teacher）

J. Dolhun

学期（Semester）

fall term

spring term

课程描述（Description）

Introduces experimental chemistry for students who are not majoring in Course V. Principles and applications of chemical laboratory techniques, including preparation and analysis of chemical materials, measurement of pH, gas and liquid chromatography, visible-ultraviolet spectrophotometry, infrared spectroscopy, kinetics, data analysis, and elementary synthesis. Enrollment limited.

备注 （notes）

Institute Lab

教参信息（Textbookinfo）

1 Laboratory Manual for Principles of General Chemistry by Jo A. Beran (Paperback - Dec. 10, 2007)

Publisher: Wiley; 8 edition (December 10, 2007)

ISBN-13: 978-0470129227

世界各地拥有馆藏的图书馆（OCLC）:38

2 Introduction to Organic Laboratory Techniques: A Microscale Approach (Brooks/Cole Laboratory Series for Organic Chemistry) by Donald L. Pavia, Gary M. Lampman, George S. Kriz, and Randall G. Engel (Hardcover - Feb. 1, 2006)

Publisher: Brooks Cole; 4 edition (February 1, 2006)

ISBN-13: 978-0495016304

世界各地拥有馆藏的图书馆（OCLC）:75

3 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

4 Multiscale Operational Organic Chemistry: A Problem Solving Approach to the Laboratory (2nd Edition) (v. 2) by John W. Lehman (Hardcover - Apr. 19, 2008)

Publisher: Prentice Hall; 2 edition (April 19, 2008)

ISBN-13: 978-0132413756

世界各地拥有馆藏的图书馆（OCLC）:44

5 Chemistry the Central Science, Laboratory Experiments (10th Edition) by John H Nelson and Kenneth C. Kemp (Paperback - Feb. 3, 2005)

Publisher: Prentice Hall; 10 edition (February 3, 2005)

ISBN-13: 978-0131464797

世界各地拥有馆藏的图书馆（OCLC）:9

6 Laboratory Handbook for General Chemistry (with Student Resource Center Printed Access Card) (Brooks / Cole Laboratory Series) by Conrad L. Stanitski, Norman E. Griswold, H. A. Neidig, and James N Spencer (Paperback - Jan. 13, 2006)

Publisher: Brooks Cole; 3 edition (January 13, 2006)

ISBN-13: 978-0495018902

世界各地拥有馆藏的图书馆（OCLC）:19

7 Prentice Hall Laboratory Manual to Introductory Chemistry: Concepts and Connections (5th Edition) by Charles H. Corwin (Spiral-bound - July 25, 2008)

Publisher: Prentice Hall; 5 edition (July 25, 2008)

ISBN-13: 978-0136043010

世界各地拥有馆藏的图书馆（OCLC）:6

8 Laboratory Inquiry in Chemistry (Brooks / Cole Laboratory Series for General Chemistry) by Richard Bauer, James Birk, and Doug Sawyer (Paperback - Mar. 27, 2008)

Publisher: Brooks Cole; 3 edition (March 27, 2008)

ISBN-13: 978-0495113454

世界各地拥有馆藏的图书馆（OCLC）:24

9 Multiscale Operational Organic Chemistry: A Problem-Solving Approach to the Laboratory Course by John W. Lehman (Hardcover - Aug. 30, 2001)

Publisher: Prentice Hall (August 30, 2001)

ISBN-13: 978-0130154958

世界各地拥有馆藏的图书馆（OCLC）:56

10 Exploring Chemistry Laboratory Experiments in General, Organic and Biological Chemistry (2nd Edition) by Julie R. Peller (Paperback - Apr. 27, 2003)

Publisher: Prentice Hall; 2 edition (April 27, 2003)

ISBN-13: 978-0130477149

世界各地拥有馆藏的图书馆（OCLC）:18