课程代码（Coursenumber）：

1B.

课程名（Coursename） ：

General Chemistry.

学分（credit) ：(4) Students will receive no credit for 1B after taking 4B.

课程设置（course setting）：Two hours of lecture and four hours of laboratory per week.

选课要求（prerequisite）:1A or a score of 3, 4, or 5 on the Chemistry AP test.

课程描述（Description）：Introduction to chemical kinetics, electrochemistry, properties of the states of matter, binary mixtures, thermodynamic efficiency and the direction of chemical change, quantum mechanical description of bonding, introduction to spectroscopy. Special topics: Research topics in modern chemistry and biochemistry, chemical engineering. (S)

教参信息（Textbookinfo）:

1 General Chemistry by Linus Pauling (Paperback - Apr. 1, 1988)

ISBN-13: 978-0486656229

2 General Chemistry: Principles and Modern Application, 9th Edition by Ralph H. Petrucci, William S Harwood, Geoff E Herring, and Jeff Madura (Hardcover - Apr. 28, 2006)

ISBN-13: 978-0132388269

世界各地拥有馆藏的图书馆（OCLC）:4

3 General Chemistry (4th Edition) by John W. Hill, Ralph H. Petrucci, Terry W. McCreary, and Scott S. Perry (Hardcover - Mar. 12, 2004)

ISBN-13: 978-0131402836

世界各地拥有馆藏的图书馆（OCLC）:98

4 General Chemistry: The Essential Concepts by Raymond Chang (Hardcover - Feb. 23, 2007)

ISBN-13: 978-0073311852

世界各地拥有馆藏的图书馆（OCLC）:91

5 General Chemistry, Enhanced Edition with OWL by Darrell Ebbing and Steven D. Gammon (Hardcover - Jan. 1, 2010)

ISBN-13: 978-0538497527

世界各地拥有馆藏的图书馆（OCLC）:1

6 General Chemistry I as a Second Language: Mastering the Fundamental Skills by David R. Klein (Paperback - Mar. 16, 2005)

ISBN-13: 978-0471716624

世界各地拥有馆藏的图书馆（OCLC）:126

7 General Chemistry: Media Enhanced Edition, 8th Edition by Ebbing and Gammon (Hardcover - Jan. 12, 2007)

ISBN-13: 978-0618738793

世界各地拥有馆藏的图书馆（OCLC）:41

8 General Chemistry: Principles and Modern Applications by Lucio Gelmini and Robert Hilts (Paperback - May 13, 2006)

ISBN-13: 978-0131493858

世界各地拥有馆藏的图书馆（OCLC）:8

9 Chemistry: Concepts and Problems: A Self-Teaching Guide (Wiley Self-Teaching Guides) by Clifford C. Houk and Richard Post (Paperback - Feb. 1996)

ISBN-13: 978-0471121206

世界各地拥有馆藏的图书馆（OCLC）:734

10 General Chemistry: Atoms First by John McMurry and Robert C. Fay (Hardcover - Feb. 22, 2009)

ISBN-13: 978-0321571632

世界各地拥有馆藏的图书馆（OCLC）:21

11 Chemistry (with CengageNOW Printed Access Card) by Kenneth W. Whitten, Raymond E. Davis, Larry Peck, and George G. Stanley (Hardcover - Feb. 16, 2006)

ISBN-13: 978-0495011965

世界各地拥有馆藏的图书馆（OCLC）:21

12 General Chemistry: The Essential Concepts by Raymond Chang (Hardcover - Jan. 4, 2005)

ISBN-13: 978-0073101682

世界各地拥有馆藏的图书馆（OCLC）:1