课程代码（Coursenumber）

Chemistry 4100 (410)

课程对象（Audience）

Primarily for Undergraduates

开课教师（Teacher）

学期（Semester）

Fall

课程描述（Description）

This course will cover Chapters 2-5 and 9-16 of Miessler and Tarr.

课程提纲（Syllabus）

Atomic structure

Valence bond and molecular orbital theory

Symmetry and group theory

Transition metal chemistry and coordination compounds

Ligand field theory

Electronic and vibrational spectroscopy

Reaction and mechanism of coordination compounds

Organometallic chemistry

Catalysis

Bioinorganic chemistry

课时信息（Totalhours）

教参信息（Textbookinfo）

G. L. Miessler & D. A. Tarr, Inorganic Chemistry, 3rd Ed.

1 Inorganic Chemistry: Principles of Structure and Reactivity (4th Edition) by James E. Huheey, Ellen A. Keiter, and Richard L. Keiter (Hardcover - Jan. 17, 1997)

ISBN-13: 978-0060429959

2 Solutions Manual Inorganic Chemistry 3e by Catherine Housecroft (Paperback - Dec. 15, 2007)

ISBN-13: 978-0132048491

3 Inorganic Chemistry (4th Edition) by Gary L. Miessler and Donald A. Tarr (Paperback - Mar. 4, 2010)

ISBN-13: 978-0136128663

4 Inorganic Chemistry by James House and James E. House (Paperback - Aug. 8, 2008)

ISBN-13: 978-0123567864

5 Introduction to Modern Inorganic Chemistry, 6th edition by R.A. Mackay and W. Henderson (Paperback - Nov. 18, 2002)

ISBN-13: 978-0748764204

6 Inorganic Chemistry by Duward Shriver and Peter Atkins (Paperback - Dec. 18, 2009)

ISBN-13: 978-1429218207

7 Biological Inorganic Chemistry: Structure and Reactivity by Harry B. Gray, Edward I. Stiefel, Joan Selverstone Valentine, and Ivano Bertini (Hardcover - Oct. 30, 2006)

ISBN-13: 978-1891389436

8 Concepts and Models of Inorganic Chemistry by Bodie E. Douglas, Darl H. McDaniel, and John J. Alexander (Hardcover - Jan. 1994)

ISBN-13: 978-0471629788

9 Inorganic Chemistry by Gary Wulfsberg (Hardcover - Feb. 2000)

ISBN-13: 978-1891389016

10 Descriptive Inorganic, Coordination, and Solid State Chemistry by Glen E. Rodgers (Hardcover - Jan. 7, 2002)

ISBN-13: 978-0125920605

11 Holleman-Wiberg's Inorganic Chemistry by Nils Wiberg, A. F. Holleman, and Egon Wiberg (Paperback - Nov. 5, 2001)

ISBN-13: 978-0123526519

12 Descriptive Inorganic Chemistry by Geoff Rayner-Canham and Tina Overton (Hardcover - Dec. 28, 2009)

ISBN-13: 978-1429218146