课程名（Coursename）

Chemistry 2090 (209) Engineering General Chemistry

课程代码（Coursenumber）

Chemistry 2090 (209)

课程对象（Audience）

Primarily for Undergraduates

开课教师（Teacher）

Professor Wolczansk

学期（Semester）

Spring

课程描述（Description））

CHEM 2090 in the spring is offered to engineering undergraduates only. The course covers the material of CHEM 2070, and will use the same textbook; students can seamlessly transition to CHEM 2080 from this course. The basic material will be covered on Mondays and Wednesdays. On Fridays, there will be some review, applications of the MW material for engineers, and some additional material designed to address current topics in chemistry. New material covered on Fridays will be the subject of multiple choice questions taken from lecture and will comprise roughly 20-30% of each exam.

课程提纲（Syllabus）

Week Dates Experiment

1 1/25 – 1/29 Check-In & Safety

2 2/1 – 2/5 E1 – Synthesis & Decomposition of Zinc Iodide

3 2/8 – 2/12 E2 – Part I: Synthesis of Potassium Tris(oxalato)ferrate(III) Trihydrate

4 2/15 – 2/19 E2 – Part II: Analysis of Potassium Tris(oxalato)ferrate(III) Trihydrate

5 2/22 – 2/26 E3 – Chemical Reactions

6 3/1 – 3/5 E4 – Sodium Hypochlorite in Bleach

7 3/8 – 3/12 E5 – Alka-Seltzer Analysis

8 3/15 – 3/19 E6 – Enthalpy of Formation

9 3/22 – 3/26 Spring Break

10 3/29 – 4/2 E7 – Spectroscopic Determination of KEQ

11 4/5 – 4/9 E8 – Optical Spectroscopy

12 4/12 – 4/16 E9 – Molecular Shape & Polarity

13 4/19 – 4/23 E10 – Properties of Pure Substances

14 4/26 – 4/30 E11 – Chemical Kinetics: I2 Clock

15 5/3 – 5/7 Check-Out

Additional Laboratory Information/Policies…

1. Experimental procedures will be posted on the Chem 2090 Blackboard site Thursday of the week before a new experiment begins

2. Answers to all pre-laboratory questions are due at the beginning of your lab period.

3. Carbonless-copies of your lab notebook pages are due at the end of each lab period.

4. Lab reports are due at the beginning of the lab period 1-week following the date the experiment was completed.

5. Each lab experiment is worth 20 points.

6. Your 10 best experiment scores count toward your final grade.

7. You can submit one lab report one day late during the semester without penalty. After this instance, lab reports are penalized 5 points per day late.

课时信息（Totalhours）

16706 LEC 001 MWF

11:15AM - 12:05PM

BKL 200

Wolczanski,P (ptw2)

Labs begin Mon.Jan 25, late comers for 1st mtg of labs, forfeit their spot but are not automatically dropped from the course. BKL 100 CA is the Lobby of Baker Lab. If you are unable to register for a lab section, you need to sign-up on the Chemistry waiting list accessible only at http://chemlabs.arts.cornell.edu. Further information about the waiting list is available at the following link: http://www.chem.cornell.edu/courses/WaitListFAQS.pd

教参信息（Textbookinfo）

1) General Chemistry, 9th Edition, Petrucci, Harwook, Herring and Madura

2) Scientific calculator with logarithm and exponential functions. Calculators capable of displaying

text, i.e., graphing calculators, are not permitted for exams.

3) Laboratory Research Notebook (notebook with carbon paper of carbonless duplicate sets).

4) Ball-point pen, for laboratory.

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）:100

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）:94

5 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）:129

6 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）:2

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）:43

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

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）:25

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）:61

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

13 General Chemistry: Principles and Modern Applications by Ralph H. Petrucci (Paperback - May 2006)

ISBN-13: 978-0132227117

14 General Chemistry by John W. Hill (Paperback - June 2004)

ISBN-13: 978-0131452787

15 Principles of General Chemistry by Martin S. Silberberg (Hardcover - Jan. 12, 2009)

ISBN-13: 978-0077274320

世界各地拥有馆藏的图书馆（OCLC）:35