|  |
| --- |
| 课程代码（Coursenumber）Chemistry 2090 (209)课程对象（Audience）Primarily for Undergraduates开课教师（Teacher）Professor Wolczanski学期（Semester）Fall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 Experiment1 1/25 – 1/29 Check-In & Safety2 2/1 – 2/5 E1 – Synthesis & Decomposition of Zinc Iodide3 2/8 – 2/12 E2 – Part I: Synthesis of Potassium Tris(oxalato)ferrate(III) Trihydrate4 2/15 – 2/19 E2 – Part II: Analysis of Potassium Tris(oxalato)ferrate(III) Trihydrate5 2/22 – 2/26 E3 – Chemical Reactions6 3/1 – 3/5 E4 – Sodium Hypochlorite in Bleach7 3/8 – 3/12 E5 – Alka-Seltzer Analysis8 3/15 – 3/19 E6 – Enthalpy of Formation9 3/22 – 3/26 Spring Break10 3/29 – 4/2 E7 – Spectroscopic Determination of KEQ11 4/5 – 4/9 E8 – Optical Spectroscopy12 4/12 – 4/16 E9 – Molecular Shape & Polarity13 4/19 – 4/23 E10 – Properties of Pure Substances14 4/26 – 4/30 E11 – Chemical Kinetics: I2 Clock15 5/3 – 5/7 Check-OutAdditional Laboratory Information/Policies…1. Experimental procedures will be posted on the Chem 2090 Blackboard site Thursday of the week before a new experiment begins2. 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 - 12:05PMBKL 200Wolczanski,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 Madura2) 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: 978-04866562292 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）:43 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）:1004 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）:945 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）:1296 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）:27 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）:438 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）:89 Chemistry: Concepts and Problems: A Self-Teaching Guide (Wiley Self-Teaching Guides) by Clifford C. Houk and Richard Post (Paperback - Feb. 1996)ISBN-13: 978-047112120610 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）:2511 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）:6112 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）:113 General Chemistry: Principles and Modern Applications by Ralph H. Petrucci (Paperback - May 2006)ISBN-13: 978-0132227117 |