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| **伊利诺大学（University of Illinois–Urbana-Champaign）** | [返回](http://59.72.66.9/services/wjzx/ktyj/mgdx.html) |
| <http://www.scs.uiuc.edu/chem/courses/accourses.php>   |  |  | | --- | --- | | **Course** | **Title** | | [\*CHEM 101](http://www.scs.uiuc.edu/chem/courses/n101f.php) | Introductory Chemistry (fall) | | [\*CHEM 102](http://www.scs.uiuc.edu/chem/courses/n102f.php) | General Chemistry I (fall, spring, summer) | | [\*CHEM 103](http://www.scs.uiuc.edu/chem/courses/n103f.php) | General Chemistry Laboratory I (fall, spring, summer) | | [\*CHEM 104](http://www.scs.uiuc.edu/chem/courses/n104f.php) | General Chemistry II (Biological or Physical Version) (fall, spring, summer) | | [\*CHEM 105](http://www.scs.uiuc.edu/chem/courses/n105f.php) | General Chemistry Laboratory II (Biological or Physical Version) (fall, spring, summer) | | [\*CHEM 108](http://www.scs.uiuc.edu/chem/courses/n108.php) | Chemistry, Everyday Phenomena (spring) |   **CHEM 101 - Introductory Chemistry** (May Satisfy a Gen Ed Requirement)   |  |  | | --- | --- | | Course Directors: | (fall 2006) 101A - DisplayMail('uiuc.edu', 'gadams4', 'Gretchen Adams'); [Gretchen Adams](mailto:gadams4@uiuc.edu) - 105 Chem Annex  101B - TBA | | **Description:** | (CHEM 100) Introduction to the basic concepts and language of chemistry; lectures, discussions, and laboratory. | | **Credits:** | (3 hours). Only students without high school chemistry or with chemistry placement scores inadequate for enrollment in CHEM 102 receive graduation credit | | **Computer Usage:** | Students will do some homework assignments using WebCT. [The Chemistry Learning Center](http://www.chem.uiuc.edu/clcwebsite/index.html), 212 Chem Annex has computers and other materials for student use. TAs are available here at specific times for consultation. | | **Course Prerequisites:** | 2.5 years of high school mathematics, or credit or concurrent registration in MATH 012. | | **Required Materials:** | * ***Introductory Chemistry, 5th ed.* by Steven S. Zumdah**l * *Chemistry 101 Syllabus & Lab Book,* * Inexpensive Calculator * Lab Apron * Lab Goggles | | **Optional Materials:** | * *Complete Solutions to Introductory Chemistry, 5th ed.,* by Hall * *Study Guide to Introductory Chemistry, 5th ed.,* by Donald DeCoste, Iris Stovall |   **CHEM 102 - General Chemistry** (May Satisfy a Gen Ed Requirement)   |  |  | | --- | --- | | Course Directors: | (fall 2006) 102A - [Professor Paul Kelter](http://www.scs.uiuc.edu/chem/kelter/)  102B/D/E - DisplayMail('uiuc.edu', 'tjhummel', 'Tom Hummel'); [Tom Hummel](mailto:tjhummel@uiuc.edu) - 7 Chem Annex  102C - DisplayMail('uiuc.edu', 'cyerkes', 'Christine Yerkes'); [Christine Yerkes](mailto:cyerkes@uiuc.edu) - 207 Chem Annex | | **Description:** | For students who have some prior knowledge of chemistry. Principles governing atomic structure, bonding, states of matter, stoichiometry, and chemical equilibrium; descriptive chemistry of the elements and coordination compounds.  Students in the College of Engineering may not drop CHEM 102 after the first day of class without a dean's approval. | | **Credits:** | (3 hours) Students may not receive credit for both CHEM 102 and 202. | | **Computer Usage:** | Students will do some homework assignments using WebCT. [The Chemistry Learning Center](http://www.chem.uiuc.edu/clcwebsite/index.html), 212 Chem Annex has computers and other materials for student use. TAs are available here at specific times for consultation. | | **Course Prerequisites:** | Credit in or exemption from MATH 012; one year of high school chemistry or equivalent. Placement into 102 by the Chemistry Placement Test recommended. All students enrolled in CHEM 102 should also enroll in CHEM 103. | | **Required Materials:** | **102A** ***Chemistry: The Practical Science*, 1st ed., by Paul Kelter** **102B/102D .** ***Chemistry, 7th ed.,* Zumdahl**  *Interactive Course Guide, Fall 2006,* by DeCoste.   1. Handouts for Chemistry 102b/102D, spring 2006 Students need to buy the Houghton Mifflin shrink-wrapped package of the materials above.  **102C** *Chemistry, 7th ed.,* Zumdahl 2. Handouts for Chemistry 102C\*, by Yerkes (this book may be put on-line instead) | | **Recommended:** | **102A**   1. Study Guide to Chemistry: The Practical Science, 1st ed., by Torre & Adams 2. Solutions Maunal to Chemistry: The Practical Science, 1st ed., Darveau.  **102B/102C/102D** 3. *Past Hourly Examinations for Chemistry 102A/B/C/C* 4. *Partial Solutions Manual for Chemistry, 7th ed.,*by Zumdahl, Hummel, & Zumdahl 5. *Study Guide for Chemistry, 7th ed,.* by Kelter |   **CHEM 103 - General Chemistry Laboratory** (May Satisfy a Gen Ed Requirement)   |  |  | | --- | --- | | Course Directors: | (fall 2006) DisplayMail('uiuc.edu', 'denofrio', 'Lauren Denofrio'); [Lauren Denofrio](mailto:denofrio@uiuc.edu) - 309 Chem Annex | | **Description:** | (Chem 105) Laboratory studies to accompany CHEM 102. | | **Credits:** | (1 hour) | | **Home Page:** | WebCT login and password need to be the same as for CHEM 102 | | **Computer Usage:** | Students will do some homework assignments using WebCT. [The Chemistry Learning Center](http://www.chem.uiuc.edu/clcwebsite/index.html), 212 Chem Annex has computers and other materials for student use. TAs are available here at specific times for consultation. | | **Course Prerequisites:** | Credit or concurrent registration in CHEM 102 is required. Students who completed CHEM 101 before Spring 1998 (4 hours credit) may not receive credit for CHEM 105. Students may not receive credit for both CHEM 105 and 109. Students in the College of Engineering may not drop CHEM 105 after the first day of class without a Dean's approval. | | **Required Materials:** | Laboratory Manual: *103 General Chemistry Experiments* - Fall 2006  Other Equipment:  Laboratory notebook (bound graph paper, 100 pages, alternating white and yellow)   1. safety goggles 2. safety apron 3. breakage fee card 4. inexpensive calculator |   **CHEM 104 - General Chemistry, Fall 2006** (May Satisfy a Gen Ed Requirement)   |  |  | | --- | --- | | Course Directors: | 104A/B - Instructor to be announced  104C - Instructor to be announced | | **Description:** | Lecture and discussions. Biological Version (104A) Chemistry of organic and biochemical systems, chemical energetics and equilibrium, chemical kinetics, and reaction mechanisms. Physical Version (104C): Chemistry of materials, including organic and biological substances, chemical energetics and equilibrium, chemical kinetics, and solids and crystals. | | **Credits:** | (3 hours) Students may not receive credit for both CHEM 104 and 204. | | **Computer Usage:** | Students will do some homework assignments using Ion-capa (sections A/B) and WebCT (section C). [The Chemistry Learning Center](http://www.chem.uiuc.edu/clcwebsite/index.html), 212 Chem Annex has computers and other materials for student use. TAs are available here at specific times for consultation. | | **Course Prerequisites:** | CHEM 102 or 202 or advanced placement credit for one semester of college-level chemistry.  All students enrolled in CHEM 104 should also enroll in CHEM 105. | | **Required Materials:** | **104A/B** ***Chemistry 7th edition*, by Steven S. Zumdahl**   1. *Organic Chemistry, 11th ed.,* by Hart/Craine/Hart 2. *104A/B Syllabus,* Fall 2006 3. Inexpensive calculator   **104C**   1. *Chemistry 7th edition*, by Steven S. Zumdahl 2. Inexpensive calculator | | **Recommended:** | **104A/B**   1. *Study Guide for Chemistry, 7th ed.,* by Kelter. 2. *A Partial Solutions Guide for Chemistry 7th edition,* by T. Hummel, S. S. Zumdahl, and S. A. Zumdahl. 3. *Past Hour Exams for 104 A,B,C*, Fall 06.   *Study Guide/Solns. Manual to Organic Chemistry, 11th ed.,* by Hart/Craine/Hart  **104C** Same as above, except the *Study Guide/Solns. Manual to Organic Chemistry, 11th ed.,* by Hart/Craine/Hart is not listed as recommended. |   **CHEM 105 - General Chemistry Laboratory** (May Satisfy a Gen Ed Requirement)   |  |  | | --- | --- | | Course Directors: | (fall 2006)  DisplayMail('uiuc.edu', 'flener', 'Charity Flener'); [Charity Flener](mailto:flener@uiuc.edu)  (105E, Engineering version) | | **Description:** | (CHEM 106) Laboratory studies to accompany CHEM 104. | | **Credits:** | (1 hour) | | **Computer Usage:** | Students will do some homework assignments using Ion-capa. [The Chemistry Learning Center](http://www.chem.uiuc.edu/clcwebsite/index.html), 212 Chem Annex has computers and other materials for student use. TAs are available here at specific times for consultation. | | **Course Prerequisites:** | CHEM 102 and 103; credit or concurrent registration in CHEM 104 is required.  Students in the College of Engineering may not drop CHEM 105 after the first day of class without a Dean's approval. | | **Required Materials:** | Laboratory Manual:  105E/L General Chemistry Experiments, Fall '06  Other Equipment:  bound laboratory notebook, 100# pages, yellow & white   1. safety goggles 2. safety apron 3. inexpensive calculator 4. breakage fee card. |   **CHEM 108 - The Chemistry of Everyday Phenomena** (May Satisfy a Gen Ed Requirement)   |  |  | | --- | --- | | Course Directors: | (spring 2006) DisplayMail('uiuc.edu', 'gadams4', 'Gretchen Adams'); [Gretchen Adams](mailto:gadams4@uiuc.edu) - 105 Chem Annex, 4-8279  DisplayMail('uiuc.edu', 'decoste', 'Donald DeCoste'); [Donald DeCoste](mailto:decoste@uiuc.edu) - 107 Chem Annex, 4-5959 | | **Description:** | (CHEM 115) Laboratory-based work in which students will evaluate products (such as antacids), synthesize materials (such as soap), and gain a better understanding of forensic chemistry. | | **Credits:** | (3 hours) Credit in CHEM 108 does not count toward Chemistry requirements for students in the Specialized Curriculum in Chemistry, the Science and Letters Chemistry major, the Chemistry Teaching Option, or the Chemistry minor; however the course may be taken by students in any of theses groups for general education hours. | | **Home Page:** | <https://pentane.chem.uiuc.edu/public/bnrChemistry108sp06/index.html> | | **Course Prerequisites:** | Credit or concurrent registration in MATH 012 or 016. | | **Required Materials:** | * Lab Goggles * Overrun aprons * Lab Notebook - 100 pages white & yellow * Breakage Fee Card | | |