

CH 101/105, FALL SEMESTER, 2009: LABORATORY SCHEDULE

There is one three-hour laboratory each week. Lab sessions are in SCI 268 on Monday - Friday. **The first laboratory session is on Monday, September 14.** Some weeks there will also be a laboratory lecture on Wednesday (2-3pm in MOR101), Thursday (4-5pm in SCI 107) or Friday (2-3pm in MOR 101). **The first laboratory lecture is on Wednesday, September 2nd.** Most reports are due one week after the completion of the lab work. For more details see the schedule of the labs given below.

| Week # | DATES | LAB LECTURE | LAB EXPERIMENT/page in the lab manual; lab post-test information | Due date and the format of the lab report. |
|--------|--------------|---|--|--|
| 1 | 9/2 – 4 | Introductory lab lecture | No labs | ----- |
| 2 | 9/8– 11 | Lab lecture on exp. #1 | No labs | ----- |
| 3 | 9/14 – 18 | Lab lecture on exp. #2 | Exp.#1. Measurement of atom and molecules in solids, liquid and gases, p. 14 | Full report is due in a week in the lab |
| 4 | 9/21– 25 | Lab lecture on exp. #3 | Exp.#2. Chemical composition of inorganic salts, p. 46 | Full report is due in a week in the lab |
| 5 | 9/28–10/2 | Lab lecture on exp.# 4 | Exp. #3. Preparation of solutions, p. 66 | Full report is due in a week in the lab |
| 6 | 10/5– 9 | No lab lecture | Exp.#4. Qualitative analysis, Part I, p. 122 Bring to the part II of the lab: a) the completed flow chart for five cations separation; b) all tables with your observation data; c) all lab manual pages with the blank spaces filled with your answers. | |
| 7 | 10/13-16 | No lab lecture | No Labs, due to Holiday on Monday, 10/13 | ----- |
| 8 | 10/19– 23 | Workshop at lab lecture on exp #5: Energy of light, p. 326 | 1. Exp. #4. Qualitative Analysis, Part II 2. Bring your lab manual to the pre-lab lecture to collect data received at workshop. | Brief lab report on exp. #4 is due at the end of the lab class |
| 9 | 10/26 – 30 | Lab lecture on computer lab exp. #6 | 1. Monday, October 26: Post-test on exp.#5, Workshop “Energy of light” 2. Computer lab exp. #6: Properties of waves and orbitals. 3. No experiments in the laboratory SCI 268 | Bring your lab report on computer lab exp. #6 to the post-test on Monday, November 2nd |
| 10 | 11/2– 6 | Lab lecture on computer lab exp. # 7 | 1. Monday, November 2: Post-test on computer lab #6. 2. Make up labs in SCI 268 for all lab sections | Make up lab reports for all lab sections are due at the departmental mailbox (at SCI 299) on Monday, November 9, before 4:30pm. |
| 11 | 11/9–13 | Lab lecture on computer lab exp. #8. | 1.Computer lab exp.#7: Role of time in atoms and light 2. No experiments in the laboratory SCI 268. 3. Pre-lab on Wed, 11/11 was moved to Mon., 11/9 at 5:00-6:00pm in MOR 101. | Bring your lab report on computer lab exp. #7 to the post-test on Monday, November 16. |
| 12 | 11/16-20 | Lab lecture on exp. #9 | 1. Monday, November 16: Post-test on computer lab exp. #7. 2. Computer lab exp. #8: Symmetry, overlap and energy. 3. No experiments in the laboratory SCI 268 | Bring your lab report on computer lab exp. #8 to the post-test on Monday, November 30. |
| 13 | 11/23-27 | No labs 11/23 and 11/24. Fall Recess 11/25– 29 | | |
| 14 | 11/30 – 12/4 | Lab exam review lecture in pre-labs | 1. Monday, November 30: Post-test on computer lab exp. # 8 2. Back to the lab in SCI 268: Exp. #9. Lewis Structures and Molecular Shapes, p.164 | Brief lab report on exp. #9 is due at the end of the lab class |
| 15 | 12/ 7 | Monday, December 7: CH101 Lab exam | | |

NOTE: The lowest score for experiments #1, 2, 3, 5 and 9 will be dropped. If you missed exp. #4, you must make it up later at the make up lab week (11/2-6).