Chemistry 141 Laboratory – Fall 2016

(Laboratory Web Page: http://web.colby.edu/ch141/laboratory/)

Instructors: Das Thamatoor, Keyes 302, x5765, dmthamat@colby.edu
Lisa Miller, Keyes 310, x5752, lmmiller@colby.edu

Location: Keyes 405

Meeting Times:

- Section A: Mon. 1:00 to 4:00 pm, Lisa Miller
- Section B1: Tues. 8:00 to 11:00 am, Lisa Miller
- Section B2: Tues. 1:00 to 4:00 pm, Lisa Miller
- Section C: Wed. 1:00 to 4:00 pm, Lisa Miller
- Section D1: Thurs. 8:00 to 11:00 am, Das Thamatoor
- Section D2: Thurs. 1:00 to 4:00 pm, Das Thamatoor
- Section E1: Fri. 1:00 to 4:00 pm, Lisa Miller

Required Materials:
(a) Bound laboratory book.
(b) Experiment handouts (see below)
(c) Approved safety goggles (will be provided in the laboratory)

Lab Safety: We have several policies in place to help keep you and your lab mates safe in lab. Please be sure to read, understand, and adhere to these policies, which are provided in the laboratory safety document.

Lab Lecture: Each week there will be a brief lecture on important information related to the lab. Specific safety information, changes to procedures, and demonstrations will be provided as necessary. This information supplements what is in the lab handout. As such, punctuality is a nonnegotiable requirement each and every week (see grading consequences below).

Attendance: You are required to attend your assigned lab section and complete every experiment. If you cannot attend your lab due to illness, athletic competition, or other reasons you must notify Ms. Miller as soon as possible. In the event of a health-related absence please notify Ms. Miller through your advising dean. Excused absences may be made up for a full grade. Unexcused absence(s) will earn no more than 50% of the grade for the missed lab(s), which must be made up in order to complete and pass the course. Please refer to the attendance and exam policy on the Chemistry Web page (www.colby.edu/chemistry/Attend_Exam.html).

Experiments: Lab experiments will be available on the Chemistry 141 laboratory web page (http://web.colby.edu/ch141/laboratory/) a few days before each lab (usually by Wednesday the week before the experiment begins). These documents will include a detailed description of the experiment as well as instructions for what work to complete prior to your lab section. You are expected to download the experiment and bring a printed copy to lab with you each week.
Pre-lab Preparation: Well before each lab, prepare yourself by carefully reading the laboratory handout. Most labs have required pre-lab preparations, so it is important that you download the experiment as soon as it is posted to give yourself ample time to complete them (some require that you find information not provided in the handout itself). Write your pre-lab preparations in your laboratory notebook. These preparations will ensure your time in lab is most productive.

Notebook Instructions: Your laboratory notebook is the primary record of all work done in lab. Everything relevant to the experiments you perform should be entered into your notebook as you proceed. It is not acceptable to fill in your notebook after the fact; this would make your entries recollections, not a primary record. Your notebook will never look exactly like anyone else’s, but others should be able to duplicate your experiment based on the procedure and notes you’ve recorded.

The following guidelines should help you understand what is expected:

- Buy a bound composition book (no carbon copy or spiral notebooks). This can be a lined or graph paper notebook.
- All entries must be permanent, i.e. use non-erasable ink, not pencil.
- On the inside front cover put your name, lab section, and the contact information for your instructor (refer to the syllabus).
- Number the pages in your notebook before using it (it is okay to number just the front side of each page as 1, 3, 5 etc.)
- The first two pages of your notebook should be designated for a Table of Contents. This table should be kept up to date.
- Every entry need not be perfectly neat, but it must be legible, even errors. Cross out mistakes with a single line so that the original entries are still easy to read. **Correction fluids, white outs, and similar devices are not allowed.** It is not acceptable to rip out pages. All pages should be used, do not leave pages blank. Your overall record keeping skills will be part of the notebook grade, and therefore, part of the final lab grade.
- Record the title of each experiment, the date the work was performed, and your partner(s) name(s), if any.
- Detailed procedure, data (including units), graphs, calculations, and observations should be in your notebook. Some items will need to be graded first before they are returned to you for attaching inside the notebook. Please do not layer attachments when placing into the notebook. If the graph is too large for one page, just tape it across two open notebook pages. Attachments that hang out of your notebook can get torn, tattered or destroyed, so please keep each attachment within the notebook.
- Cite references and sources in the prescribed format (see below).
Citations: Please follow the guidelines in the ACS Style Guide that is available in the lab and Olin library. See also: http://library.williams.edu/citing/styles/acs.php. A few common examples are given below.

- **Citing a journal article:** DeMoura, J. M.; Marcello, J. A. *J. Chem. Ed.* 1987, 64, 452.
- **Citing a lab mate or instructor:** Katz, J. L. *CH141 Lecture*, 9/16/2016.

Lab Report: Unless indicated otherwise by your instructor, lab reports are due within 24 hours after completion of each experiment.

Intellectual Honesty: Students are expected to demonstrate academic honesty in all aspects of this course. Academic dishonesty includes, but is not limited to: plagiarism; presenting another’s work as your own; buying or attempting to buy papers or projects for a course; fabricating data or citations; knowingly assisting others in acts of academic dishonesty; violating clearly stated rules for taking an exam or completing homework; and misrepresentations to instructors. Sanctions for academic dishonesty are assigned by an academic review board and may include failure on the assignment, failure in the course, or suspension or expulsion from the College. For more on recognizing and avoiding plagiarism, see the guide: libguides.colby.edu/avoidingplagiarism

Grading: Your laboratory grade will be determined by your notebook score (15%), discretionary points (20%), pre-lab score (15%), and laboratory report score (50%). For each experiment you will receive discretionary points for being on time, being prepared (notebook, pen, printed experiment, proper lab attire, etc.), and observant of proper laboratory procedures (safety, cleanup, etc.). Coming late to lab will result in a loss of some or all of those points. If you arrive after the pre-lab lecture begins, you are late. Points will be taken away for any minor safety violation that occurs again after the instructor has already issued one warning. Major safety violations can result in the loss of all discretionary points and/or dismissal from the lab. Your total laboratory grade will contribute to 20% of your overall course grade.

Resources: In addition to the assistance the lab instructors can provide, help is also available at the Chemistry Help Center, staffed by experienced and knowledgeable chemistry majors, which is open Monday through Thursday in Keyes 104 from 7:30 - 9:30 pm. These students will help answer your questions and work through problems with you. The Colby Writing Center is also available if you need help with the writing of lab reports.