

General Chemistry Laboratory

Chemistry 1125
Dr. Harris
Spring 2018 Course Schedule
1 credit

Dates		Experiment/Activity Group A (Widtsoe 112)	Experiment/Activity Group B (Widtsoe 104)
January	16 th – 22 nd	Course Policies – Safety Review	Course Policies – Safety Review
January	23 rd – 29 th	Lab Drawer Check In - Basic Lab Techniques	Lab Drawer Check In - Basic Lab Techniques
January/February	30 th – 5 th	Separation of the Components of a Mixture	Separation of the Components of a Mixture
February	6 th – 12 th	Chemical Reactions – “A Greener Approach”	Chemical Reactions – “A Greener Approach”
February	13 th – 20 th	Paper Chromatography	Paper Chromatography
February/March	26 th – 2 nd	Titration of Acids and Bases	Sunscreen Spectrophotometry
March	12 th – 16 th	Sunscreen Spectrophotometry	Titration of Acids and Bases
March	19 th – 23 rd	Chirality Molecular Modeling (meet in Widtsoe 334)	Reducing Sugars
March	26 th – 30 th	Reducing Sugars	Chirality Molecular Modeling (meet in Widtsoe 334)
April	2 nd – 6 th	Lactase Enzyme Kinetics – Lab Drawer Check Out	Lactase Enzyme Kinetics – Lab Drawer Check Out
April	9 th – 13 th	TA/Course Evaluations – Score Check – Final Exam	TA/Course Evaluations – Score Check – Final Exam
April	16 th – 20 th	Molecular Modeling of Proteins	Molecular Modeling of Proteins

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Materials

Lab Text (required): “Chemistry 1125 – General Chemistry Laboratory” Catalyst – The Prentice Hall Custom Laboratory Program for Chemistry

Lab Notebook (required): “Student Lab Notebook” from the USU bookstore (carbon-copy pages absolutely necessary)

Splash goggles, lab coat, full-length jeans with no holes, socks, and “complete” shoes are required in the laboratory.

The lab fee of \$75 is used to purchase equipment and supplies for the laboratory as well as a small portion for teaching assistant compensation.

Grades

A score of 90% is guaranteed an A- and 95% or better is guaranteed an A. Final scores will be rounded to nearest one's place (94.4% = 94% and 94.5% = 95%).

Signed Lab Safety Documentation @ 20 pts.....	20 points
5 Unannounced lab notebook checks @ 10 pts.....	50 points
9 Lab reports @ 20 pts.....	180 points
Final Exam	100 points
Teaching Assistant Evaluation (safety, cooperation, independence).....	50 points
Total.....	400 points

Policies and Procedures

1. The administration of Chemistry 1125 will adhere strictly to the policies (including the issuing of incompletes) outlined in the USU 2016 – 2017 General Catalog.
2. Qualified students with disabilities may be eligible for reasonable accommodations. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, 797-2444 voice, 797-0740 TTY, or toll-free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) are available with advance notice.
3. Attendance at all the assigned meetings is required. A missed experiment which has an excused absence will be made up by appointment only with the last scheduled experiment (Molecular Modeling of Proteins). Excused absences include: (1) school excused absences outlined in the general catalog, (2) illness, and (3) a family emergency. Planned family trips, vacations, outings, and weddings are not excused absences. Students should notify the TA in advance, if possible, prior to missing an experiment. Students missing an experiment will have one week to notify the TA that they have a valid excuse. A missed experiment that is not made up will be scored as zero. Only one missed experiment can be made up.
4. Individuals not wearing safety goggles, lab coats, full-length jeans with no holes, socks, and "complete" shoes (no sandals or pumps) will not be allowed in the laboratory, no exceptions.
5. All students must read and sign the Utah State University Chemistry and Biochemistry Departmental *Laboratory Safety Agreement Documentation* before beginning lab experiments.
6. Students must be registered for the lab section they attend. Failure to do so will result in an F letter grade being assigned to the university.
7. Notebooks: Students are required to keep an organized record of lab work in their lab notebooks. An experiment procedure that is detailed enough for someone else to follow and repeat the experiment should be entered into the lab notebook before starting each experiment. Your lab TA will provide additional specific information regarding the organization of what to include in the lab notebook. In order to ensure that students have reviewed each experiment and the lab notebook is properly prepared, 5 unannounced lab notebook checks will be performed at the beginning of the experiment in which the TA will call for the duplicate copy pages for the prepared experiment. All work done in the lab must be summarized in the note book. *No writing on the lab report forms is permitted during the lab periods.* All notebook entries must be in ink. Incorrect entries and mistakes should be crossed out and followed by correct entries.
8. Each lab report is due at the beginning of the next laboratory session. Late reports will be assessed a 10% penalty per week. The lab report for the final experiment (Beer's Law) will be due at the conclusion of the lab period that it is performed.
9. Students must review all lab course scores at the score check meeting time (April 9th – 13th). It is also recommended that students retain all scored course laboratory work. Teaching assistants will not declare a student's final lab course grade at the score check meeting.

Course Objectives and Assessment

Chem 1125 laboratory experiments are designed to complement the Chem 1110 and 1120 lecture courses. The experiments deal with basic chemistry techniques, assessment of data, synthesis of compounds, determination of chemical composition and characteristics, chemical separations, and the characterization of reactions.

Assessment of the course will include an end-of-semester evaluation seeking suggestions for course improvement.