

Chemistry 141 Laboratory

Fall 2020 Schedule

Week Beginning	Exp No.	Lab Manual Page #	Title	Pre-lab Quiz (in lab)
August 17			Check-In and Getting Back into the Groove: Dimensional Analysis Worksheet	No Quiz
August 24	1	7	Group I Analysis	No Quiz
August 31	2	11	Chemical Kinetics	Quiz
September 7	3	23	Chemical Equilibrium	Quiz
September 14	4	29	Dissociation Constant of a Weak Acid	Quiz
September 21	5	35	pH Titration of a Polyprotic Acid	Quiz
September 28	6	45	Buffers and Salts	Quiz
October 5	7	51	Determination of Solubility Product Constant	Quiz
October 12	8	55	Synthesis of a Coordination Compound & <i>Cobalt Demonstration</i>	Quiz
October 19	9	61	Spectrophotometry: Determination of Nickel(II)	Quiz
October 26	10	67	Mini-Research Project (Preparation)	No Quiz
November 2			Mini-Research Project (Metal & Halide det.)	No Quiz
November 9			Mini-Research Project (pH Titration & Spectrophotometry)	No Quiz
November 16	11	91	Redox Reactions and Electrochemistry	Quiz
November 23			<i>Thanksgiving Break: No Labs</i>	
November 30			Check-Out: Required	

Due Dates: Reports for experiments 1, 3, 4, 6, 7, 8 and 11 are due on the date the experiment is completed. Reports for experiments 2, 5, and 9 are due one week after the experiment is completed. The report for the Mini-Research Project is due the week of November 16. The grade on the report will be reduced 10% each day the report is late.

Pertinent Laboratory Information

Website: <https://about.illinoisstate.edu/ipchris>. This web site contains more detailed laboratory information. Please visit this web site regularly especially before coming to each laboratory meeting.

Lab Manual and Safety Glasses (or goggles):

These two items should be purchased through the Chemistry Club and will be available in the Chemistry Resource Room (215 Julian Hall) beginning August 17th. The current Chem. 141 lab manual has an orange cover. Please note that after the week of August 17th the Chemistry storeroom will no longer loan safety glasses to students. Therefore, if you don't have safety glasses and a lab manual you will not be allowed in the lab beginning the week of August 24th. You will need to have safety glasses on when you arrive in the laboratory (room 104 SLB). Therefore, you will need to store them in your backpacks. **No student will be allowed to work in the lab without safety glasses or the proper lab attire (clothing covering; the upper legs and knees, upper arms and torso, and covered shoes).** Open toe sandals or shoes that cover only the toes will not be allowed in the lab (the shoe should cover the entire foot). Chemistry storeroom will not be loaning safety glasses to students. Therefore, if you forget your safety glasses you will not be allowed in the lab.

Grading:

Dimensional Analysis Worksheet	9 pts.
Laboratory Reports (exp. 1-9 & 11), 9 pts. each	90 pts.
Cobalt Demo worksheet	1 pt.
Pre-lab Quizzes (exp. 2-9 & 11), 3 pts. each	27 pts.
Mini-Research Project	23 pts.
Total	150 pts.

Quizzes:

Pre-lab quizzes are administered in the lab, at the beginning of the hour and collected in 10 minutes. The quiz will be taken from the scheduled lab experiment and may involve calculations. Each student is responsible for his or her own quiz. There are no make-up quizzes or exceptions to the scheduled dates.

Tardiness and Absences:

Last day to check-in to Chem. 141 lab is the week of August 31st. No student will be allowed to check-in after this date.

It is important to come to the laboratory class on time. The pre-lab quizzes will be distributed at the beginning of the hour and collected in 10 minutes. During the next 15 minutes of the class, the laboratory instructor and the teaching assistant will outline the salient points of the laboratory exercise and discuss safety issues. Thus, students who arrive late will miss out on these important issues and may not be able to complete the exercise on time or successfully. Further, late arriving students may be a safety hazard to themselves and to other students. Accordingly, students who arrive more than five minutes past the start of the lab class will receive a 1-point penalty on their grade. Students who arrive more than ten minutes past the start of the lab class will receive a 2-point penalty on their grade. No students will be admitted after 20 minutes; these students will receive a grade of zero for that experiment.

If a laboratory is missed due to an excused absence (determined by the laboratory instructor), the lab grade will be based on points earned in the other experiments. Typically, no more than one excused absence is given. A grade of "0" will be recorded for unexcused absences.

There are no make-up laboratories!

Laboratory Notebook:

All students are required to keep a laboratory notebook. Details on the notebook can be found at the web site <https://about.illinoisstate.edu/ipchris>. A sample notebook will be available for your observation in the lab.

Laboratory Fee and Check-Out:

Each student will be charged a general lab fee on the tuition bill. Students are responsible for their own equipment. Missing or broken items must be replaced at check-out time. Each student will be billed for any missing or broken equipment on the next tuition bill. Check-out is on the last lab meeting as indicated on the schedule. Students who drop the course must check out of lab when the course is dropped. Students who fail to check out of lab will be charged an additional fee.

Laboratory Coordinator:

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