

## Chemistry 100 Laboratory Schedule

The laboratory portion of this course meets Friday from 1:00 to 3:30 p.m. in SC 224. The laboratory consists of various activities totally 230 points. These are broken down as follows:

Wk #	Date	Activity	Part. Points	Additional Assignment Description	Additional Points	Tot. for Week
1	Aug. 29	Safety/Check-in/Demos	10	-	-	10
2	Sept. 5	Chemical Reactions	10	Data & Calculations	5	15
3	Sept. 12	Electron Dot Structures	10	Worksheet	10	20
4	Sept. 19	Demo Prep 1	10	-	-	10
5	Sept. 26	Demo Prep 2	10	-	-	10
6	Oct. 3	Practice Demos A	10	Preparation Grade	10	20
7	Oct. 10	Esters and Odors	10	Data & Calculations	5	15
8	Oct. 17	Practice Demos B	10	(continued from 10/3)	-	10
9	Oct. 24	Final Practice Demos	10	Preparation/Chemistry	20	30
10	Oct. 31	Videotape Demos	10	Prep/Chem/Presentation	20	30
11	Nov. 7	Heat Content of Fuels	10	Data & Calculations	5	15
12	Nov. 14	Wastewater Treatment	10	Response Paper	5	15
13	Nov. 21	Day One (movie)	10	Response Paper	10	20
14	Nov. 28	Thanksgiving Break	-	-	-	-
15	Dec. 5	Fiber Reactive Dyes	10	-	-	10
Total						230

As you can see above, all weeks include participation points. Many of the laboratory activities also have additional points associated with them. All laboratory points are described below.

- **Participation Points (140):** Points are awarded for attendance and full participation in the laboratory activities for that week. Students can expect to receive all ten (10) points for attending the entire lab session, completing all required activities, cleaning up their workspace and following all safety procedures. Deductions will only be made for non-attendance, leaving before activities are complete or disregarding safety and clean-up instructions. There are fourteen (14) laboratory meetings.
- **Data and Calculations and Worksheets (25 total):** Several labs have post lab questions and calculations. These will generally be completed before leaving the laboratory. Five (5) points will be awarded for successfully completing these questions. One lab consists of a worksheet that will be started in lab and completed at home (if necessary). This will be graded out of 10 points.
- **Response Papers (15 total):**
  - **Wastewater Plant Follow-up:** After attending the Wastewater Treatment Plant tour, write a one-page response and reflection addressing these questions: What are the challenges a community faces in regard to dealing with wastewater? Is there anything an individual can do to make a difference? Of all the things you learned on the tour, what surprised you the most? Due the next lab meeting after the tour.
  - **The Manhattan Project & Individual Choice:** After watching the movie *Day One* in lab, write a 350-500 word response mini-essay. In the mini-essay, choose one of the historical characters in the film and discuss how their individual choices lead to the outcome - the bombing of Hiroshima and Nagasaki and the deaths of over 200,000 people. If one of these people made a different choice, would things have come out different? Should they have made a different choice? Due Dec. 5th.
- **Chemical Demonstrations: Preparation/Chemistry/Presentation (50 points)**

The laboratory module devoted to chemical demonstrations includes two preparation days. These days have only participation points associated with them. Two more lab periods will be dedicated to practicing the demonstrations in front of your classmates for the first time. You will receive participation points for attending and will receive up to 10 additional points for your preparation of your own demos. Being ready to present your demos with all required materials and knowing how to do the demos are all that are required to receive full credit. Another lab day is devoted to a final practice of two selected demos. This practice will be graded out of 20 points - a grade which will include preparation as well as a grade for the correct and detailed chemical explanation of the demo. For the final lab day in the module, the demos will be videotaped and this final presentation will be graded out of 20 points for a combination of the correct and detailed chemical explanation, preparation level and overall presentation.