

CHEMISTRY FOR HOME SCHOOLERS
ASBURY UNIVERSITY, HAMANN-RAY, ROOM 114
SYLLABUS 2020-2021

Instructors: Laura Walther, Ph.D.
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Required Materials: Lab manual (provided), calculator and pencil

Objectives:

1. To support the learning of chemistry being done at home
2. To develop reasoning and laboratory skills

Attendance: Students are expected to attend all lab sessions. No make-up labs will be available. In the case of a planned absence, please let the instructor know ahead of time. In the case of sudden sickness, please e-mail or call the instructor the day of the lab.

If a student arrives late (during the pre-lab), that student will lose 5 points from that experiment as a consequence. If the student arrives late and misses the pre-lab entirely, that student will lose 10 points from that experiment as a consequence. Unavoidable circumstances will be taken into consideration.

Course Structure:

- 1. A pre-lab assignment needs to be completed before coming to lab.**
2. An introductory lecture will be given. Each student will work with a partner. Each student is responsible for writing down observations and answers to questions on the pages of the lab manual for that experiment. When finished, each student will turn in a lab for grading.

Grading and Evaluations:

1. Each week the pre-lab questions, the lab experiment and the end-of-lab questions will be graded. Only labs attended will be graded.
2. Each lab will be worth 100 points.
3. A final grade will be given **at the end of each semester** as a percentage. No letter grade will be given.
4. Course evaluations will be given at the end of the spring semester.

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ASBURY UNIVERSITY, HAMANN-RAY ROOM 114, 1-4 PM

Lab #	Date	Title
1	Aug. 28	Chemical and Physical Changes
2	Sept. 11	Separation of a Mixture: Components of Peanut Butter
3	Sept. 25	Properties of Some Common Gases
4	Oct. 9	Determination of Water Hardness and pH
5	Oct. 23	Formation of Zinc Iodide
6	Nov. 6	A Survey of Reactions
Break		
7	Jan. 15	Qualitative Analysis of Cations
8	Jan. 29	Acid and Base Chemistry
9	Feb. 12	Experiments in Equilibrium
10	Feb. 26	Calories and Combustion
11	Mar. 12	Blood and Urine Analysis (Simulated)
12	Mar. 26	Molar Mass by Vapor Density Method

Home School Day for prospective students is Friday, September 25, 2020.

Fall Break for Asbury University is Thursday-Friday, October 15-16, 2020.

Kids College (for K-8th grade) is Saturday, March 6, 2021.

Spring Break for Asbury University is March 15-19, 2021.

Easter is April 4, 2021.

No makeup labs are available; however, schedule changes are possible.

If weather conditions merit cancellation of classes on the Asbury campus, then labs will be cancelled. Otherwise parents/guardians must decide whether travel conditions are safe.