

Chem 125A General Chemistry Lab

Dr. Zhiqian Wang

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Time: Monday 8:30 am

Location: Tiernan 207

Text book:

Laboratory Manual Chemistry: A Molecular Approach 4th Edition (3rd Edition also OK)

by Nivaldo J. Tro (Author), John J. Vincent (Author), Erica J. Livingston (Author).

ISBN-13: 978-0134066264, ISBN-10: 013406626X

(Keep the book for Chem 126A if you are going to take it)

No exams for this class. Grades are based on lab performance and lab reports. Try to attend all Labs. You can have no more than 2 makeups at the end of the semester.

Safety is more important than other things. Wear safety goggles and gloves, especially when handling dangerous chemicals. Report injuries at once.

Week 1, 09/12	Check-in and safety
Week 2, 09/19	Laboratory Basics: Accuracy and Precision (Lab 1)
Week 3, 09/26	Density of materials
Week 4, 10/03	Conservation of Mass and Reaction Types: Copper Recovery Cycle (Lab 4)
Week 5, 10/10	Hydrates (Lab 6)
Week 6, 10/17	Gas Laws (Lab 7)
Week 7, 10/24	Styrofoam Cup Calorimetry: Atomic Weights (Lab 8)
Week 8, 10/31	Chemiluminescence: Glow Stick in a Beaker (Lab 9)
Week 9, 11/07	Reactivity of Group 1 Metals (Lab 11)
Week 10, 11/14	Flame Tests: Flames and Smoke Bombs (Lab 12)
Week 11, 11/21	Paper Chromatography
Week 12, 11/28	Sublimation (Lab 16)
Week 13	Make-ups
Week 14	Make-ups

- Lab reports must be handed in immediately following completion of the lab.
- Grades for the class will be determined solely upon the grades received on lab reports. Your grade will be simply calculated from the average of your 11 lab report grades.