

Chemistry 1280 – General Chemistry Lab I

Class schedule: 1 credit. One 2 hour and 50 min. lab per week

Course coordinator or instructor: Edith Kippenhan

Textbook: Chem 1280 Laboratory Manual; Cengage

Catalog Data: General Chemistry Lab I. 1 hour. Experiments over topics covered in CHEM 1230 lecture. Corequisite for CHEM 1280: CHEM 1230.

Goals: This course is offered in parallel to Chemistry 1230. The laboratory experiments are designed to complement that material.

- Topics:
1. Safety
 2. Representing Data Graphically
 3. Preparation of Strontium Iodate Monohydrate
 4. Detecting Signs of Chemical Change
 5. Spectrometric Analysis of Permanganate Ion Solutions
 6. Calorie Content of Nuts
 7. Single Replacement Reactions and Relative Reactivity
 8. Introducing the Qualitative Analysis of a Group of Cations
 9. The Chemistry and Qualitative Analysis of Anions
 10. Nuclear Chemistry
 11. Separating the Components of a Ternary Mixture
 12. Titrating Vinegar
 13. Determining Molar Volume of CO₂/Boyle's Law

Prepared by: Edith Kippenhan

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