CHM 1022C
The Chemistry of Everyday Life (3) (A.A.)

Catalog Description: Four hours lecture/lab per week. This course meets Area V requirements for A.A./A.A.S./A.S. general education requirements. This course assumes no prior knowledge of chemistry and is designed primarily for persons in the liberal arts who are interested in obtaining a deeper understanding of the science of everyday life. This course explores the chemistry seen in the everyday world around us. Additional special fees are required.

Performance Standards:

At the successful completion of this course, the student should be able to:

1. Describe scientific and technological advances and their relationships to chemistry.
2. Identify both physical and chemical properties and changes.
3. Investigate matter and subdivide it simpler units.
4. Use the SI system of measurement in calculations.
5. Discuss the basic atomic theory and its relationship to atomic structure.
6. Explain the basic principle of bonding in molecules and ionic compounds.
7. Investigate chemical reactivity found in everyday life.
8. Discuss energy as it relationship to chemical reactions.
9. Describe acids and bases in term of their physical and chemical properties.
11. Define and understand the concept of functional groups in organic chemistry.
12. Describe basic biochemical principles.
13. Demonstrate an understanding of the chemical nature of selected toxic substances.
14. Demonstrate an understanding of air and water pollutants.
15. Describe the importance of basic consumer chemistry in everyday life.
16. Perform laboratory experiments designed to give hand-on learning experience and supplement the lecture content.
17. Report laboratory data correctly and effectively.
18. Demonstrate an understanding of the scientific method and be able to apply it to everyday life.