CHAPTER 1 LEARNING OBJECTIVES

To satisfy the minimum requirements for this course, you should be able to:

Explain the following basic chemical principles:
- the differences between: a) substances and mixtures, b) elements and compounds, c) heterogeneous and homogenous mixtures, d) atoms and molecules
- the characteristics of the three states of matter

Use math to solve chemistry problems. Examples include being able to:
- determine the number of significant figures in a measured quantity and know how to express a measured or calculated quantity using the correct number of significant figures
- know the difference between accuracy and precision
- convert between units using dimensional analysis
- perform calculations involving density