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

1. 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, (e) intensive and extensive properties
   - the characteristics of the three states of matter

2. 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
   - calculate percent error

3. NavApp: Introduction
   - recognize that chemistry is important in all areas of the Navy and Marine Corps
   - recognize that there are potential implications of poor scientific practices. See, for example, the case study “Out of Gas” in textbook, page 47-8.