

After completing CHEM 210, students will be able to:

- Apply the scientific method.
- Classify matter.
- Identify elements, compounds, monoatomic ions, polyatomic ions.
- Perform dimensional analysis calculations.
- Identify subatomic particles.
- Gather information from the periodic table.
- Use the concept of mole and molar mass.
- Perform complex stoichiometric calculations.
- Identify types of aqueous chemical reactions.
- Apply thermochemical principles to calculate heat of reactions.
- Predict electronic configuration and magnetic properties of atoms and ions.
- Describe bonding and molecular geometries.
- Perform calculations using gas laws and gas stoichiometry.
- Describe intermolecular forces in liquids and solids.
- Use units of concentration in calculations.