

# CHEM1100 - Fundamental Concepts of Chemistry

Credits:	3 (2/1/0)
Description:	Meets MnTC Goal Areas 2 and 3. Course deals with substances, their structures and properties, the changes they undergo and the laws that govern those changes. Intended for prospective elementary teachers, non-science majors and those who need background for General Chemistry. This course includes a lab.
Prerequisites:	<ul style="list-style-type: none"><li>MATH0095 or placement by assessment</li></ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"><li>Outline a brief history of chemistry.</li><li>Define matter.</li><li>Outline the states of matter.</li><li>Perform metric measurements of matter.</li><li>Analyze the chemical elements.</li><li>Characterize atomic structure.</li><li>Interpret the periodic table.</li><li>Compare chemical bonding schemes.</li><li>Summarize chemical nomenclature.</li><li>Analyze chemical reactions and equations.</li><li>Perform stoichiometric calculations.</li><li>Analyze gases.</li><li>Analyze liquids.</li><li>Outline basic organic chemistry.</li><li>Use the scientific method to solve problems.</li><li>Collect experimental data.</li><li>Analyze data.</li><li>Communicate results in oral or written form.</li></ol>
MnTC goal areas:	<ol style="list-style-type: none"><li>Critical Thinking</li><li>Natural Sciences</li></ol>

\*Can be taken as a Prerequisite or Corequisite.