

## 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:	MATH0095 or placement by assessment
Corequisites:	
Pre/Corequisites <sup>*</sup> :	
Competencies:	<ol> <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:	2. Critical Thinking 3. Natural Sciences

<sup>\*</sup>*Can be taking as a Prerequisite or Corequisite.*