

# 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>1. Outline a brief history of chemistry.</li> <li>2. Define matter.</li> <li>3. Outline the states of matter.</li> <li>4. Perform metric measurements of matter.</li> <li>5. Analyze the chemical elements.</li> <li>6. Characterize atomic structure.</li> <li>7. Interpret the periodic table.</li> <li>8. Compare chemical bonding schemes.</li> <li>9. Summarize chemical nomenclature.</li> <li>10. Analyze chemical reactions and equations.</li> <li>11. Perform stoichiometric calculations.</li> <li>12. Analyze gases.</li> <li>13. Analyze liquids.</li> <li>14. Outline basic organic chemistry.</li> <li>15. Use the scientific method to solve problems.</li> <li>16. Collect experimental data.</li> <li>17. Analyze data.</li> <li>18. Communicate results in oral or written form.</li> </ol>
MnTC goal areas:	<ol style="list-style-type: none"> <li>2. Critical Thinking</li> <li>3. Natural Sciences</li> </ol>

\*Can be taking as a Prerequisite or Corequisite.