UNIVERSITY OF THE INCARNATE WORD  
School of Mathematics, Science & Engineering  
CHEM 1310 Introductory Chemistry  
Syllabus

Catalog Description:
This course studies fundamental principles of general and organic chemistry. The topics include chemical and physical changes, atoms and molecules, states of matter, chemical bonding, reactions, kinetics and equilibrium, acids and bases and an introduction to organic chemistry. Together with CHEM 1110 can be used to satisfy the science core requirement. Prerequisite: students with bridging math requirement for MATH 0318 must complete it before registering for this course.

Context:
This course is designed to prepare students for CHEM 1301 and CHEM 1320. CHEM 1310 and 1110 together also serve as a core science elective for students in majors outside the sciences. Students acquire the fundamental principles of chemistry as they develop the analytical thinking skills, study skills, and proficiency with math requisite for science and health related majors. Students with bridging math requirement for MATH 0318 must complete it before registering for this course.

Course Overview:
This course studies fundamental principles of general chemistry and introduce basic organic chemistry concepts. The topics include chemical and physical changes, atoms and molecules, states of matter, chemical bonding, reactions, kinetics and equilibrium, acids and bases and an introduction to organic chemistry.

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<tr>
<th>Course outcomes:</th>
<th>Assessment:</th>
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<td>Upon completion of the course, students will be able to</td>
<td>The objectives will be assessed</td>
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<tr>
<td><strong>Successfully demonstrate their knowledge of the basic chemical concepts that are outlined in this syllabus.</strong></td>
<td><strong>By successful completion of unit exams and a final cumulative examination.</strong></td>
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<td><strong>Apply the scientific concepts and reason to real-world problems and understand how these relate to students’ career interest.</strong></td>
<td><strong>By successful completion of homework, projects, and quizzes.</strong></td>
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<tr>
<td><strong>Demonstrate proficiency in measurements and calculations related to science.</strong></td>
<td><strong>By successful completion of homework, quizzes, and exams.</strong></td>
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**Disability Statement**
The University is committed to providing a supportive, challenging, diverse, and integrated environment for all students. In accordance with Section 504 of the Rehabilitation Act—Subpart E and Title III of the Americans with Disabilities Act (ADA), the University ensures accessibility to its programs, services and activities for qualified students with documented disabilities. For more information contact the Student Disability Services Office: Administration Building Room 105; Phone: 210-829-3928; Fax: 210-829-6078.

**Policy on Academic Integrity**
The highest standards of academic honesty are expected in the course. Forms of academic dishonesty include, but are not limited to cheating, plagiarism, and counterfeit work, falsification of academic record, unauthorized reuse of work, theft, and collusion. See the Student Handbook for definitions and procedures for investigation of claims of academic dishonesty.

**Approval date:** 2013, October