

GBC Class/Course Assessment Report

Course Prefix, Number, and Title: CHEM100 (Molecules & Life in Modern World) -

Academ(II) Tc BBox 1.33 35M Da () TMC / P MC

Section Number(s): 1002

Department: Science

Instructor: Daniel Bergey

- Complete and submit your assessment report electronically to the Dean of Arts & Sciences by May 31st. As needed, please attach supporting documents and/or a narrative description of the assessment activities. You may use as many or as few outcomes as necessary.

Class/Course Outcomes	Assessment Measures	Assessment Results	Outcome Results Analysis
In the boxes below, summarize the outcomes assessed in your class or course during the last year. If this is a GenEd class, include the appropriate GenEd objectives.	In the boxes below, summarize the methods used to assess course outcomes during the last year. Include the criterion you'll use to judge whether or not students have achieved the expected outcome.		
Outcome #1: <ul style="list-style-type: none"> Discuss the states and properties of matter 	Assessment Measure: <ul style="list-style-type: none"> Quizzes, Exams, Homework Criterion for achievement: <ul style="list-style-type: none"> 70% of class with 70% or higher 	Results: <ul style="list-style-type: none"> 9/11 Criterion Met: <ul style="list-style-type: none"> YES 	1. Results Analysis: <ul style="list-style-type: none"> Most students had little problem grasping this essential content 2. Action Plan: <ul style="list-style-type: none"> None required.
Outcome #2: <ul style="list-style-type: none"> Describe the basic structure of atoms and ions, and relate them to their location in the Periodic Table, their charge, and the number of fundamental particles. 	Assessment Measure: <ul style="list-style-type: none"> Quizzes, Exams, Homework Criterion for achievement: <ul style="list-style-type: none"> 70% of class with 70% or higher 	Results: <ul style="list-style-type: none"> 6/11 Criterion Met: <ul style="list-style-type: none"> NO 	1. Results Analysis: <ul style="list-style-type: none"> Students generally had a relatively difficult time mastering

GBC Class/Course Assessment Report

<p>Outcome #3:</p> <ul style="list-style-type: none">Discuss the basics of chemical bonding including polarity of diatomic molecules.	<p>Assessment Measure:</p> <ul style="list-style-type: none">Quizzes, Exams, Homework <p>Criterion for achievement:</p> <ul style="list-style-type: none">70% of class with 70% or higher	<p>Results:</p> <ul style="list-style-type: none">9/11 <p>Criterion Met:</p> <ul style="list-style-type: none">YES	<p>1. Results Analysis:</p> <ul style="list-style-type: none">Some students found these concepts abstract, and hard to grasp initially <p>2. Action Plan:</p> <ul style="list-style-type: none">Include more video supplements with examples
<p>Outcome #4:</p> <ul style="list-style-type: none">Scientific ReasoningProficiency in the use of scientific terminology.Effectively interpret and apply scientific principles.Utilize the scientific method to arrive at informed conclusions.	<p>Assessment Measure:</p> <ul style="list-style-type: none">Quizzes, Exams, Practice problems <p>Criterion for achievement:</p> <ul style="list-style-type: none">70% of class with 70% or higher	<p>Results:</p> <ul style="list-style-type: none">6/11 <p>Criterion Met:</p> <ul style="list-style-type: none">NO	<p>1. Results Analysis:</p> <p>2. Action Plan:</p> <ul style="list-style-type: none">Include additional practice exams and worksheetAdd video supplement examples

Notes & Comments:

(1) Although CHEM100 is a non-majors course, it is math-intensive (basic algebra) and a significant proportion of students struggle with this aspect of the course every semester. The cause of virtually any student struggling with CHEM100 is due to poor basic math skills. Although basic algebra is a pre-req for the course, every semester there are students enrolled in the course that have clearly not acquired proficiency in basic algebra, and consequently struggle during the entire course, or end up withdrawing by the third or fourth week. There are always some "superstars" in CHEM100 as well.

