

# Assessment: Course Four Column



## Courses (SCI) - Chemistry

### CHEM 100:Molecules/Life Modrn Wrld

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<b>Chemical formulas using appropriate nomenclature and balance chemical equations</b> - Name and write chemical formulas using appropriate nomenclature and balance chemical equations. <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework <b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 35/41 students (01/29/2019)	<b>Action:</b> Include a practice problem set focused on this topic area Include one more graded homework assignment. (01/29/2019)
<b>States and properties of matter</b> - Discuss the states and properties of matter <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework <b>Criterion:</b> Passing quizzes with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 37/41 students (01/29/2019)	
<b>Atoms and ions and relate them to their location the Periodic Table, their charge, and the number of fundamental particles</b> - Describe the basic structure of atoms and ions and relate them to their location the Periodic Table, their charge, and the number of fundamental particles. <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework <b>Criterion:</b> Passing quizzes with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 37/41 students (01/29/2019)	<b>Action:</b> Use of additional in-class Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)
<b>Chemical bonding including polarity of diatomic molecules</b> - Discuss the	<b>Exam</b> - Weekly quizzes Exams	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
basics of chemical bonding including polarity of diatomic molecules <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	Homework <b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score	35/41 students (01/29/2019)	
<b>Critical analysis – Scientific Reasoning</b> - Critical analysis – Scientific Reasoning <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework; problem sets <b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 36/41 students (01/29/2019)	<b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)
<b>Scientific terminology</b> - Proficiency in the use of scientific terminology. <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework; problem sets <b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 36/41 students (01/29/2019)	<b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)
<b>Effectively interpret and apply scientific principles</b> - Effectively interpret and apply scientific principles <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework; problem sets <b>Criterion:</b> Passing quizzes and exams with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 35/41 students (01/29/2019)	<b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)
<b>Utilize the scientific method to arrive at informed conclusions</b> - Utilize the scientific method to arrive at informed conclusions. <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework; problem sets <b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes and No 37/41 students (01/29/2019)	<b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)
<b>Interpretation and generation of data</b> - Interpretation and generation of data <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Exam</b> - Weekly quizzes Exams Homework; problem sets <b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 35/41 students (01/29/2019)	<b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)
<b>Apply mathematical principles and</b>	<b>Exam</b> - Weekly quizzes	<b>Reporting Period:</b> 2017-2018	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>quantitative methods to collect and analyze scientific data</b> - Apply mathematical principles and quantitative methods to collect and analyze scientific data.</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2022-2023</p>	<p>Exams Homework; problem sets</p> <p><b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score</p>	<p><b>Criterion Met:</b> Yes 33/41 (01/29/2019)</p>	<p><b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)</p>
<p><b>Effectively read and interpret graphs and data to arrive at informed conclusions</b> - Effectively read and interpret graphs and data to arrive at informed conclusions.</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2022-2023</p>	<p><b>Exam</b> - Weekly quizzes Exams Homework; problem sets</p> <p><b>Criterion:</b> Passing quizzes, exams, and homework with 70% minimum score</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 36/41 students (01/29/2019)</p>	<p><b>Action:</b> Include two more graded homework assignments. Include one more written assignment/review. (01/29/2019)</p> <p><b>Follow-Up:</b> This GenEd course (my first on-line only course) is primarily taken by health-science or biology majors pursuing entry into professional programs such as nursing, pre-med, pharmacy, etc. Although the course is NOT a formal pre-requisite for these professional programs, CHEM100 prepares students for more rigorous and formal pre-requisite courses that require math and quantitative skills, and A or B minimum grades. Notably, this course is also used as the “tie-breaker” for otherwise-equally-qualified candidates applying to the nursing program. I enjoyed the course, had many very good students, and look forward to teaching it again (Fall2018). (01/29/2019)</p>