

Assessment: Course Four Column



Courses (SCI) - Chemistry

CHEM 122:General Chemistry II

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p>Solve problems involving equilibrium - Solve problems involving equilibrium (including acid-base and aqueous ion) Course Outcome Status: Active Next Assessment: 2018-2019 Start Date: 06/19/2014</p>	<p>Exam - Exam questions Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016 Criterion Met: No 59% (Previous – 2015 was 79.1%, see notes below) (10/03/2016)</p>	<p>Action: This course will be revamped completely next year and reassessed. The same outcomes will be used if at all possible to be able to compare with these results. Possible changes to be included: In-class exams (on paper) for live in Elko students, online students will have the option of an in-class exam or they will take the exams proctored at approved testing centers. Exams will no longer be open-note, open-book, etc. A periodic table, constants, and a formula sheet will be provided for students at each test, and these will be collected at the end of the exams. Students will receive a graded paper exam. Masteringchemistry will only be used for homework problems. Online components that are peripheral to the central objectives of these such as discussions will be deleted. (10/03/2016)</p>
<p>Solve problems involving chemical thermodynamics - Solve problems</p>	<p>Exam - Exam questions Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016 Criterion Met: Yes</p>	<p>Action: This course will be revamped completely next year and reassessed.</p>

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involving chemical thermodynamics Course Outcome Status: Active Next Assessment: 2018-2019 Start Date: 06/19/2014		70.5% (Previous –2015 was 84.3%, see notes below) (10/03/2016)	The same outcomes will be used if at all possible to be able to compare with these results. Possible changes to be included: In-class exams (on paper) for live in Elko students, online students will have the option of an in-class exam or they will take the exams proctored at approved testing centers. Exams will no longer be open-note, open-book, etc. A periodic table, constants, and a formula sheet will be provided for students at each test, and these will be collected at the end of the exams. Students will receive a graded paper exam. Masteringchemistry will only be used for homework problems. Online components that are peripheral to the central objectives of these such as discussions will be deleted. (10/03/2016)

Solve problems involving electrochemistry - Solve problems involving electrochemistry Course Outcome Status: Active Next Assessment: 2018-2019 Start Date: 06/19/2014	Exam - Exam questions Criterion: 70% correct	Reporting Period: 2015-2016 Criterion Met: No 60.4% (Previous – 2015 was 78.6% , see notes below) (10/03/2016)	Action: This course will be revamped completely next year and reassessed. The same outcomes will be used if at all possible to be able to compare with these results. Possible changes to be included: In-class exams (on paper) for live in Elko students, online students will have the option of an in-class exam or they will take the exams proctored at approved testing centers. Exams will no longer be open-note, open-book, etc. A periodic table, constants, and a formula sheet will be provided for students at each test, and these will be collected at the end of the exams.
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<p>Solve problems involving chemical kinetics - Solve problems involving chemical kinetics Course Outcome Status: Active Next Assessment: 2018-2019 Start Date: 06/19/2014</p>	<p>Exam - Exam questions Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016 Criterion Met: No 66.7% (Previous – 2015 was 81.0% , see notes below) (10/03/2016)</p>	<p>Students will receive a graded paper exam. Masteringchemistry will only be used for homework problems. Online components that are peripheral to the central objectives of these such as discussions will be deleted. (10/03/2016)</p> <p>Action: This course will be revamped completely next year and reassessed. The same outcomes will be used if at all possible to be able to compare with these results. Possible changes to be included: In-class exams (on paper) for live in Elko students, online students will have the option of an in-class exam or they will take the exams proctored at approved testing centers. Exams will no longer be open-note, open-book, etc. A periodic table, constants, and a formula sheet will be provided for students at each test, and these will be collected at the end of the exams. Students will receive a graded paper exam. Masteringchemistry will only be used for homework problems. Online components that are peripheral to the central objectives of these such as discussions will be deleted. (10/03/2016)</p>
<p>Solve problems involving nuclear chemistry - Solve problems involving nuclear chemistry Course Outcome Status: Active Next Assessment: 2018-2019 Start Date: 06/19/2014</p>	<p>Exam - Exam questions Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016 Criterion Met: Yes 78% (Previous – 2015 was 88.1%, see notes below) (10/03/2016)</p>	

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<p>Solve problems involving organic chemistry - Solve problems involving organic chemistry</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2018-2019</p> <p>Start Date: 06/19/2014</p>	<p>Exam - Exam questions</p> <p>Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016</p> <p>Criterion Met: No</p> <p>64.4%</p> <p>(Previous – 2015 was 75%, see notes below) (10/03/2016)</p>	<p>Action: This course will be revamped completely next year and reassessed. The same outcomes will be used if at all possible to be able to compare with these results.</p> <p>Possible changes to be included:</p> <p>In-class exams (on paper) for live in Elko students, online students will have the option of an in-class exam or they will take the exams proctored at approved testing centers.</p> <p>Exams will no longer be open-note, open-book, etc.</p> <p>A periodic table, constants, and a formula sheet will be provided for students at each test, and these will be collected at the end of the exams. Students will receive a graded paper exam.</p> <p>Masteringchemistry will only be used for homework problems.</p> <p>Online components that are peripheral to the central objectives of these such as discussions will be deleted.</p> <p>(10/03/2016)</p>
<p>Solve problems involving metals and metalurgy - Solve problems involving metals and metalurgy</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2018-2019</p> <p>Start Date: 06/19/2014</p>	<p>Exam - Exam questions</p> <p>Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016</p> <p>Criterion Met: Yes</p> <p>81.7%</p> <p>(Previous – 2015 was 93%, see notes below) (10/03/2016)</p>	
<p>Solve problems involving transition metal and coordination compounds - Solve problems involving transition metal and coordination compounds</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2018-2019</p> <p>Start Date: 06/19/2014</p>	<p>Exam - Exam questions</p> <p>Criterion: 70% correct</p>	<p>Reporting Period: 2015-2016</p> <p>Criterion Met: No</p> <p>67.6%</p> <p>(Previous – 2015 was 78.9%, see notes below) (10/03/2016)</p>	<p>Action: Action plan for items 1-4, 6, and 8 (and the course in general)</p> <p>This course will be revamped completely next year and reassessed. The same outcomes will be used if at all possible to be able to compare with these results.</p>

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<p>Operation of common chemistry lab equipment (balance, quantitative glassware) - Operation of common chemistry lab equipment (balance, quantitative glassware)</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2018-2019</p> <p>Start Date: 10/19/2015</p>	<p>Assignment - Lab - Lab reports (the lab reports cannot be completed without successful operation of equipment)</p> <p>Criterion: 70%</p>	<p>Reporting Period: 2015-2016</p> <p>Criterion Met: Yes</p> <p>Out of 14 students in the course, 9 students achieved >90%, 2 students achieved 80-90%, and 3 students did very few assignments and had less than 70% This came out to an average of 78% for the class. (10/03/2016)</p>	<p>Possible changes to be included: In-class exams (on paper) for live in Elko students, online students will have the option of an in-class exam or they will take the exams proctored at approved testing centers. Exams will no longer be open-note, open-book, etc. A periodic table, constants, and a formula sheet will be provided for students at each test, and these will be collected at the end of the exams. Students will receive a graded paper exam. Masteringchemistry will only be used for homework problems. Online components that are perifeal to the central objectives of these such as discussions will be deleted. (10/03/2016)</p> <p>Action: The course was taught, presented, delivered, assessed, etc. exactly the same as in spring 2015; online exams from masteringchemistry (Pearson publisher) were used, students were allowed to have open notes and an open book. Course outcomes for this course were assessed EXACTLY the same as in 2015 with the one important difference: the exams were proctored this semester. The same exam questions were used (with changed numbers). It is my conclusion that students in previous years were cheating or somehow obtaining higher grades through use of the internet, etc. I do not know how as all the exam problems are multi-step math problems, but this is</p>

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			the only conclusion I can reasonably reach. I did not get the impression that this was an especially "bad" class, for whatever that is worth. (10/03/2016)