Assessment: Course Four Column

Courses (SCI) - Chemistry

CHEM 122:General Chemistry II

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Solve problems involving equilibrium - Solve problems involving equilibrium (including acid-base and aqueous ion) **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 74% Results Analysis: This is as expected for a CHEM 122 class. (02/04/2019)	**Action:** keep this part of the course the same (02/04/2019)
Chemical thermodynamics - Solve problems involving chemical thermodynamics **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 70% Results Analysis: This is as expected for a CHEM 122 class. (02/04/2019)	**Action:** keep this part of the course the same (02/04/2019)
Solve problems involving electrochemistry - Solve problems involving electrochemistry **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 70% Results Analysis: This is as expected for a CHEM 122 class. (02/04/2019)	**Action:** keep this part of the course the same (02/04/2019)
Chemical kinetics - Solve problems involving chemical kinetics **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 76% Results Analysis: This is as expected for a CHEM 122 class. (02/04/2019)	**Action:** keep this part of the course the same (02/04/2019)
Solve problems involving nuclear	**Exam -** Exams		

Course Outcomes	Assessment Measures	Results	Actions
chemistry - Solve problems involving nuclear chemistry **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** No 69% Results Analysis: I was surprised that this was the lowest outcome in the class. I went back and looked at the problems that I used for assessment. They were a bit harder than others. This part and chemical kinetics is more mathematical, and a different kind of math (differential equations) than they have had before. It is usually challenging. (02/04/2019)	**Action:** This part of the course needs to be taught better. The lab on this subject, which is a major formative assessment was taught out of sequence with lecture due to a gas leak and a snow day on the Elko campus. Action plan- avoid gas leaks and snow, and make this part of the course more clear. It would be good for assessment purposes to make exam questions more consistent on this outcome. (02/04/2019)
Solve problems involving organic chemistry - Solve problems involving organic chemistry **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exam questions **Criterion:** 70% correct	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 71% Results Analysis: This is as expected for a CHEM 122 class. (02/04/2019)	**Action:** keep this part of the course the same (02/04/2019)
Solve problems involving metals and metalurgy - Solve problems involving metals and metalurgy **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 71% Results Analysis: This is as expected for a CHEM 122 class. (02/04/2019)	**Action:** keep this part of the course the same (02/04/2019)
Transition metal and coordination compounds - Solving problems having to do with transition metal and coordination compounds **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 77% Results Analysis: This is as expected for a CHEM 122 class. (02/05/2019)	**Action:** keep this part of the course the same (02/05/2019)
Operation of common chemistry lab equipment (balance, quantitative glassware) - Operation of common chemistry lab equipment (balance, quantitative glassware) **Course Outcome Status:** Active	**Assignment - Lab -** Lab reports (the lab reports cannot be completed without successful operation of equipment) **Criterion:** >70% on aggregate lab	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 90% Results Analysis: This was quite high for this class, but it is the 2nd semester	**Action:** keep this part of the course the same (02/05/2019) **Follow-Up:** This is the first time this course has been assessed since changing to all paper exams with proctoring at GBC centers. It

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Next Assessment: 2022-2023	report grade	in a series and the students have figured out how to write a lab report by this point. (02/05/2019)	s not surprising that exam grades have gone down a great deal. This course will provide a baseline for future CHEM 122 classes assessed this way. Incidentally, formative assessments like homework are incorporated into the final grades, but they are not listed here. This was all hand-tabulated data from individual exam questions. Yay for paper exams that are not arbitrarily split into separate outcomes (sarcasm). (02/05/2019)