

# Assessment: Course Four Column



## Courses (SCI) - Chemistry

### CHEM 242L:Organic Chemistry Lab II

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Chemistry in a particular experiment</b> - Understanding the chemistry involved in a particular experiment. Students will describe the chemical theory behind an experiment and be able to clearly articulate this theory in a lab report and lab notebook</p> <p><b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2023-2024</p>	<p><b>Assignment - Lab</b> - Aggregate grade on lab notebook and lab reports <b>Criterion:</b> 90% of students with an aggregate score of 90% or better on the lab notebook and lab reports</p>	<p><b>Reporting Period:</b> 2018-2019 <b>Criterion Met:</b> Yes 100% of students had an an aggregate score of 90% or better on the lab notebook and lab reports</p> <p>Results Analysis: This is an adequate result for this part of this course. (09/17/2019)</p>	<p><b>Action:</b> keep this part of the course the same (09/17/2019)</p>
<p><b>Safety and coming prepared</b> - Safety and coming to lab prepared. Students will pass quizzes on the experiment of the day and the equipment and chemicals that are being used</p> <p><b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2023-2024</p>	<p><b>Exam</b> - Lab quizzes <b>Criterion:</b> 100% of students with an aggregate score of 90% or better on lab quizzes</p>	<p><b>Reporting Period:</b> 2018-2019 <b>Criterion Met:</b> Yes 100% of students had an an aggregate score of 90% or better on applicable exam questions --- this is about safety. If they do not perform at this level then I make them retake the quiz</p> <p>Results Analysis: This is an adequate result for this part of this course. (09/17/2019)</p>	
<p><b>Complete lab</b> - Keeping accurate and complete lab notebooks Students will record experimental procedures and results in a lab notebook in a manner clear enough that experiments may be reproduced and detailed lab reports may be</p>	<p><b>Assignment - Written</b> - Lab notebooks <b>Criterion:</b> 100% of students with an aggregate score of 90% or better on lab notebooks</p>	<p><b>Reporting Period:</b> 2018-2019 <b>Criterion Met:</b> Yes 100% of students had an an aggregate score of 90% or better on lab notebooks</p> <p>Results Analysis:</p>	

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<p>written</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2023-2024</p>		<p>This is an adequate result for this part of this course.</p> <p>(09/17/2019)</p>	
<p><b>Technical expertise in an organic chemistry lab</b> - Technical expertise in an organic chemistry lab and exposure to appropriate techniques. Students will demonstrate technical lab capabilities commensurate with those in a 1-year organic chemistry course and have been exposed to an array of lab techniques appropriate for this course</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2023-2024</p>	<p><b>Assignment - Lab</b> - labs, lab reports, lab notebook</p> <p><b>Criterion:</b> 90% of students with an aggregate score of 90% or better on labs, lab reports, lab notebook</p>	<p><b>Reporting Period:</b> 2018-2019</p> <p><b>Criterion Met:</b> Yes</p> <p>100% of students had an an aggregate score of 90% or better on labs, lab reports, lab notebook</p> <p>Results Analysis:</p> <p>This is an adequate result for this part of this course.</p> <p>(09/17/2019)</p>	
<p><b>Lab (technical) report writing</b> - Proficiency at lab (technical) report writing</p> <p>students will produce scientific lab reports that clearly communicate a scientific experiment and differentiate between the different, distinct parts of the lab report</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2023-2024</p>	<p><b>Assignment - Lab</b> - Correct completion of lab reports</p> <p><b>Criterion:</b> 90% of students with an aggregate score of 90% or better on lab reports</p>	<p><b>Reporting Period:</b> 2018-2019</p> <p><b>Criterion Met:</b> Yes</p> <p>100% of students had an an aggregate score of 90% or better on lab reports</p> <p>Results Analysis:</p> <p>This is an adequate result for this part of this course.</p> <p>Students have written over 100 lab reports by this point in their career, so they know how to do it. (09/17/2019)</p>	
<p><b>Grammatically English</b> - Ability to communicate in clear, grammatically correct written English</p> <p>Students will communicate in clear, grammatically correct written English</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2023-2024</p>	<p><b>Assignment - Lab</b> - Correct completion of lab reports – lab reports are not accepted with excessive language mistakes.</p> <p><b>Criterion:</b> 90% of students with an aggregate score of 90% or better on lab reports</p>	<p><b>Reporting Period:</b> 2018-2019</p> <p><b>Criterion Met:</b> Yes</p> <p>100% of students had an an aggregate score of 90% or better on lab reports</p> <p>Results Analysis:</p> <p>This is an adequate result for this part of this course.</p> <p>Students have written over 100 lab reports by this point in their career, so they know how to do it. (09/17/2019)</p>	
<p><b>GEN ED, Scientific Data Interpretation</b> - GEN ED, Scientific Data Interpretation: Effectively apply</p>	<p><b>Assignment - Lab</b> - Aggregate lab score</p> <p><b>Criterion:</b> 90% of students with an</p>	<p><b>Reporting Period:</b> 2018-2019</p> <p><b>Criterion Met:</b> Yes</p> <p>100% of students with an aggregate score of 90% or better</p>	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
mathematical principles and quantitative methods to collect and analyze scientific data <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2023-2024	aggregate score of 90% or better on the total lab score	on applicable sections of lab reports  Results Analysis: This is an adequate result for this part of this course. (09/17/2019)	
<b>GEN ED, Scientific Data</b> <b>Interpretation: Utilize the scientific method to arrive at informed conclusions</b> - GEN ED, Scientific Data Interpretation: Utilize the scientific method to arrive at informed conclusions <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2023-2024	<b>Assignment - Lab</b> - Aggregate lab score <b>Criterion:</b> 90% of students with an aggregate score of 90% or better on the total lab score	<b>Reporting Period:</b> 2018-2019 <b>Criterion Met:</b> Yes 100% of students with an aggregate score of 90% or better on applicable sections of lab reports  Results Analysis: This is an adequate result for this part of this course. (09/17/2019)	<b>Action:</b> Labs are the closest thing we have to completion/competency-based learning in the sciences. I approach assessment of this course with the intent that students should be able to get 100% on all the assignments. To this end students are made to repeat lab quizzes if they get below 80% (due mainly to safety) and they are made to rewrite lab reports that have errors (sometimes this means two or three revisions – especially in lower division courses where students are still learning how to write reports.) This is what leads to the very high outcome attainment reflected in this report. (09/17/2019)