

# Assessment: Course Four Column

## Courses (SCI) - Chemistry

### CHEM 241L:Organic Chemistry Lab I

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<b>Describe the chemical theory behind an experiment</b> - Describe the chemical theory behind an experiment and be able to clearly articulate this theory in a lab report and lab notebook  <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Assignment - Lab</b> - Lab notebook, lab reports  <b>Criterion:</b> 90%	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes notebook =99% reports=97%  Results Analysis: The students did well, as expected (02/05/2019)	<b>Action:</b> continue as currently (02/05/2019)
<b>Pass quizzes on the experiment of the day</b> - pass quizzes on the experiment of the day and the equipment and chemicals that are being used  <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023	<b>Assignment - Lab</b> - Lab quizzes <b>Criterion:</b> 95%	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 97%  Results Analysis: These quizzes assess if student know what they are going to do in a particular lab before they do it and if they can be safe – it is important to have 95% in this category. (02/05/2019)	<b>Action:</b> continue to emphasize this area (02/05/2019)
<b>Record experimental procedures and results in a lab notebook</b> - 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 written  <b>Course Outcome Status:</b> Active	<b>Assignment - Lab</b> - Lab notebook, lab reports <b>Criterion:</b> 80%	<b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes notebook =99% reports=97%  Results Analysis: These students have been writing chemistry lab report for one year at this point. They are obviously proficient.	<b>Action:</b> Continue (02/05/2019)

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<b>Next Assessment:</b> 2022-2023		(02/05/2019)	
<p><b>Demonstrate technical lab capabilities</b> - 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 <b>Next Assessment:</b> 2022-2023</p>	<p><b>Assignment - Lab</b> - Completion of labs, lab reports, lab notebook</p> <p><b>Criterion:</b> 80%</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes all students completed all labs notebook =99% reports=97%</p> <p>Results Analysis: All students completed all labs. Occasionally this required some make up work. They are technically proficient by the end of the year in organic chemistry. (02/05/2019)</p>	<p><b>Action:</b> Continue (02/05/2019)</p>
<p><b>Produce scientific lab reports that clearly communicate a scientific experiment</b> - 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 <b>Next Assessment:</b> 2021-2022 <b>Start Date:</b> 11/09/2017</p>	<p><b>Assignment - Lab</b> - Lab reports</p> <p><b>Criterion:</b> 80%</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 97%</p> <p>Results Analysis: This is usually the weakest area for students. They continue to struggle somewhat in writing detailed lab reports that communicate CHEMISTRY. (02/05/2019)</p>	<p><b>Action:</b> continue, but give more practice and training in the use of ChemDraw in the writing of lab reports and that I expect mechanistic detail in lab reports. (02/05/2019)</p>
<p><b>Communicate in clear, grammatically correct written English</b> - Communicate in clear, grammatically correct written English</p> <p><b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023</p>	<p><b>Assignment - Lab</b> - Lab reports</p> <p><b>Criterion:</b> 80%</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes 97%</p> <p>Results Analysis: Generally students used good style and language in reports. (02/05/2019)</p>	<p><b>Action:</b> Continue (02/05/2019)</p>