

## BS Degree, Chemistry Major

<b>Learning Outcome</b> <i>What should a graduate in this major know, value, or be able to do at graduation and beyond?</i>	<b>Data Collection and Analysis</b> <i>What assessment tools and/or methods will you use to determine achievement of the learning outcome? Describe how the data from these tools and/or methods will be collected. Explain the procedure to analyze the data.</i>	<b>Results of Evaluation</b> <i>What were the findings of the Analysis Team? List any specific recommendations.</i>	<b>Use of Evaluation Results</b> <i>What changes in curriculum, courses, or procedures were made as a result of the program learning outcome assessment process?</i>
<p>Students should be able to identify and apply the basic concepts taught in the core major courses</p>	<p>A standardized general chemistry exam, obtained from the American Chemical Society (ACS) has been given to students completing the general chemistry sequence (CHE 101/102) for a number of years. We currently studying the suitability of using the exam assessment of core chemical principles.</p>	<p>Analysis of exam results will suggested content areas where improvement is needed.</p>	<p>Course syllabi will be reviewed and adapted where necessary to improve learning of concepts in which deficiencies are discovered.</p>
<p>Premedical and pre dental students should have a firm foundation in basic concepts covered on the MCAT and DAT national exams. This outcome applies to both premedical biology majors and chemistry majors.</p>	<p>Practice MCAT exams are given yearly to premedical and pre-dental students who take our MCAT/DAT preparation course. The results of these practice tests can identify content areas that need improvement.</p>	<p>MCAT scores have not been at the level we would like in recent years. Pre-health advisors are analyzing recent score data to attempt to identify how course content and/or curriculum could be changed to improve scores.</p>	<p>The division has designated a pre-health advising committee composed of faculty who advise any pre-health students. One of the duties of this committee will be to study MCAT and other admission test data and make recommendations for changes in course content, curriculum structure, and advising methods aimed at improving scores.</p>
<p>Students should be able to analyze scientific data, develop hypotheses, interpret experimental results, draw conclusions, and present outcomes to an audience.</p>	<p>Selected majors engage in internships and laboratory projects, and present their results. Students involved in internships are generally required to submit a summary report of their projects. We encourage students to present research results at poster presentations of regional or national meetings of scientific societies.</p>	<p>Several students have attended scientific meetings with faculty to present posters or presentations. Evaluation by involved faculty members have critiqued student performance. Evaluation is done on an individual basis involving all faculty who have overseen the projects.</p>	<p>Division curriculum committee has been discussing how to involve more students in these kinds of activities. The recommendation is that we add to the curriculum a portfolio mechanism that will require all students in all majors to take part in a two-year process that will lead to individual studies and presentations to fellow students.</p>