

**Major Field Assessment Plan  
B.S. Chemistry**

The mission of Southeastern Louisiana University is to meet the education and cultural needs, primarily of Southeast Louisiana, to disseminate knowledge and to facilitate life-long learning through quality instruction, research and service in a safe, student-centered environment.

The purpose of the B.S. in Chemistry is to prepare students for graduate study in Chemistry and in other fields that require considerable scientific knowledge and laboratory experience, and/or to train chemists for employment in industry.

**Goal 1**

To provide students with knowledge in the field of chemistry.

A. Expected Outcome

Students completing the undergraduate program in chemistry will compare very favorably on a national basis with other seniors graduating in chemistry.

Graduates will be able to demonstrate problem-solving and laboratory skills in the areas of general, inorganic, organic, analytical, physical, and biological chemistry.

Assessment

Fifty percent of the graduates in the chemistry program who graduate with a cumulative GPA of 2.00 - 2.75 in their major will score above the 33<sup>rd</sup> percentile on the ETS chemistry field assessment. Fifty percent of the graduates in the chemistry program who graduate with a cumulative GPA of 2.75 - 3.50 in their major will score above the 50<sup>th</sup> percentile on the ETS chemistry field assessment. Fifty percent of the graduates in the chemistry program who graduate with a cumulative GPA above a 3.50 in their major will score above the 67<sup>th</sup> percentile on the ETS chemistry field assessment.

B. Expected Outcome

Graduates will respond very favorably to the chemistry curriculum and overall learning environment.

Assessment

- a. Ninety percent of the graduates in the chemistry program will be satisfied with their chemistry instruction, as indicated on the Southeastern Exit Survey.

- b. One hundred percent of the graduates will be satisfied with their advisor's concern for their academic goals and feel comfortable asking for letters of recommendation from at least three professors in the Chemistry Department as evidenced by the Southeastern Exit Survey.

**Goal 2**

To develop a comprehensive understanding of the professional aspects of chemistry.

Expected Outcome

Students completing the undergraduate program in chemistry will demonstrate awareness of the diverse nature of chemistry and its applications as a body of knowledge and the importance of participation in professional societies, professional meetings and undergraduate research in the field of chemistry.

Assessment

Eighty percent of the graduates from the chemistry program will feel they were given opportunities and support for attending professional chemistry meetings and participating in undergraduate research while a student at Southeastern.

**Goal 3**

To prepare students for career-based employment and/or graduate study.

Expected Outcome

One year after graduation, the majority of graduates will have career-based employment or will be in graduate school.

Assessment

At least sixty percent of the graduates of the chemistry program will have career employment or will be enrolled in graduate school as evidenced by the Southeastern Chemistry Post Exit Survey.

**Note**

Chemistry majors receive a multicultural global perspective through their foreign language requirement, their participation in the seminar program, their involvement in undergraduate research, and by their attendance and presentations at professional meetings.

Revised 12/31/2009

**GOAL ATTAINMENT FRAMEWORK**

B.S., Chemistry  
Department of Chemistry and Physics

Academic Years 2009-11

December 31, 2011

Expected Outcome	Much Less than Expected	Less than Expected	Expected	More than Expected	Much More than Expected
% of graduates with a cumulative GPA of 2.00-2.75 scoring above the 33 <sup>rd</sup> percentile on the ETS Major Field Achievement Test in Chemistry			<b>50%</b>		
% of graduates with a cumulative GPA of 2.75-3.50 scoring above the 50 <sup>th</sup> percentile on the ETS Major Field Achievement Test in Chemistry			<b>50%</b>		
% of graduates with a cumulative GPA above 3.50 scoring above the 66 <sup>th</sup> percentile on the ETS Major Field Achievement Test in Chemistry			<b>50%</b>		
% of graduates satisfied with their advisor's concern for their academic goals/ feels comfortable asking for letters of recommendation from professors in the Chemistry Department as indicated on the Southeastern Exit Survey			<b>100%</b>		
% of graduates satisfied with their chemistry instruction, as indicated on the Southeastern Exit Survey			<b>90%</b>		
% of graduates who feel they were given opportunities and support for attending professional chemistry meetings while a student at Southeastern as evidenced by the Southeastern Exit Survey			<b>80%</b>		
% of graduates who have career employment or will be enrolled in graduate school as evidence by the Southeastern Chemistry Post Exit Survey			<b>60%</b>		