

LSUA Annual Assessment Form

Bachelor of General Studies - Chemistry Concentration

2015 - 2016

Reporting Unit

Academic Year

Section I

LSUA Goal:

II a. All academic curricula and programs will demonstrate currency and rigor.

Statement of Purpose

Unit Desired Outcome:

1. Graduates will demonstrate an understanding of the general chemistry topics stoichiometry, atomic and molecular structure, bonding, acids and bases, thermodynamics, equilibria, and kinetics.

Assessment Methods and Criteria

1. Representative problems from the outcome topics will be imbedded on exams in CHEM 1202 General Chemistry II. Seventy five percent of the students will score 75% or better.

Section II

Results of Assessment

1. No students have entered the program thus far, so the imbedded questions have not been scored.

Section III

Use of Results

1. As the department feared, the far from ideal degree structure of the BGS has not attracted students. The department had gone with this degree simply because the Board of Regents had aggressively discouraged the establishment of new degree programs. During the 2015-2016 academic year, the chair worked with the provost and faculty to put together a serious proposal for approval to offer the BS in

Chemistry. Formal support was gained from industry, local school districts, the Chamber of Commerce, the Central Louisiana Economic Development Alliance, Louisiana's Superintendent of Education, and Louisiana State University. A June 2016 meeting to present the case for the BS in Chemistry was postponed by the Board of Regents. The department will defend its proposal as soon as the Board of Regents permits.

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Statement of Purpose

Unit Desired Outcome:

2. Graduates will demonstrate a breadth of knowledge across the chemistry disciplines.

Assessment Methods and Criteria

1. Representative problems from organic chemistry will be imbedded on exams in CHEM 3262 Organic Chemistry II and CHEM 2001 Analytical Chemistry. Seventy-five percent of students will score 75% or better.
2. Graduates will take the American Chemical Society's Diagnostic of Undergraduate Chemistry Knowledge. At least fifty percent of the students will score in the 25th percentile or higher.

Section II

Results of Assessment

1. Appropriate questions for Organic Chemistry II have been formulated and imbedded in the final exam. Questions are being developed for Analytical Chemistry. With no concentrators, the questions have not been scored.
 2. The Diagnostic of Undergraduate Chemistry Knowledge is an exam designed to evaluate students who are graduating from an ACS certified degree program. Since the BGS concentration has less chemistry content than a typical ACS major, standards for acceptable performance are set relatively low.
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Section III

Use of Results

1. The faculty and chair are comfortable with using these outcomes and assessment methods for BS in Chemistry if it is approved.
 2. The plan was to have students in the program take the exam when they reach their semester of graduation. This assessment will be maintained if the BS in Chemistry is approved.
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Section I

LSUA Goal:

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Statement of Purpose

Unit Desired Outcome:

3. Graduates will demonstrate competency in safe laboratory practices, the use of balances, glassware, and instruments, the ability to perform standard laboratory techniques, and the ability to maintain a laboratory notebook, perform data analysis, and write reports.

Assessment Methods and Criteria

1. Representative problems from the outcome topics will be imbedded on exams and online quizzes in CHEM 1302 General Chemistry Laboratory II and CHEM 3362 Organic Chemistry Laboratory II. Seventy-five percent of the students will score 75% or better.
2. A report from a CHEM 1302 laboratory course will be used to verify the student's ability to write an acceptable report. A rubric evaluating notebook usage will be used to determine if students have kept proper notebooks in each laboratory course. Seventy-five percent of the students will score 75% or better on the report and on the rubric.

Section II

Results of Assessment

1. Questions to be imbedded in the exams are being selected.
 2. Experiments are being evaluated to determine which would be most appropriate.
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Section III

Use of Results

1. Imbedded exam questions in CHEM 3362 and CHEM 1302 were not scored since no LSU student has declared the concentration.
 2. No report has been evaluated since there are no concentrators.
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