

ProgramLevelAssessment: Annual Report

ProgramName (no acronyms)BSChemistry

Department: Chemistry

Degreeor CertificateLevel: 2022

Is this program accredited by an external program/disciplinary/specialized accredition; and external program/disciplinary/specialized accredition accreditio

1. StudentLearning Outcomes

Which of the program's student learning outcomes were assessed annual assessment cycle lease list the full, completelearning outcome statements and not just numbers, e.g., Outcomes 1 and 2.)

Year 2 assessment focuses on components of lab courses that are used as a measure of student learning. Th following program student learning outcomes were assessed in this aassessment cycle (Year 2):

- #2-Demonstrate proficiency of basic (general, physical, and inorganic) laboratory techniques and advanced (organic and analytical) laboratory techniques and conduct laboratory experiments safely (a, c, e, g, and h in atspean) ne
- #3-Collect, interpret, and analyze quantitative data (c, e, and f in assessment plan).
- #4 Communicate scientific results effectively, especially through written oral presentations (a, b, d, and f in assessment plan)

2. Assessment Methods: Artifacts Student Learning

Which artifactsof student learning were used to determine if students achievedounteome(s) Pleasedescribe and identify the course(s) in which hese artifacts were collected Clarify if any such courses were offered a) online b) at the Madrid campusor c) at any other offeamous location.

Data collected includes:

Outcome #2 -Score on safety exam in General Chiedry 1&2, scoring rubric for Gen Chem 2 lab Boiling Point Elevation, semester score in Physical Chemistry Lab, score on safety exam in Orgo 1&2 Lab, scoring rubric (technique points section) for Orgo 2 lab (Lab 7: E1/E2 elimination), semester scoreligitie 1 Lab, and score on grading rubric in Inorganic Lab (ferrocene lab).

Outcome #3 -Semester score in Analytical 1 Lab, rubric (data analysis) for Analytical 2 Lab (spectroscopy lab), gradin rubric for Inorganic Lab (report and computational work sections for ferrocene lab), and semester score for Physical Chemistry Lab.

Outcome #4 Presentation in Orgo 1 Lab (rubric), overall score on rubric for Analytical 2 Lab (spectroscopy lab), semester score for Physical Chemistry Lab, and overall score on rubric in Inorganic Lab (ferrocene lab).

Data from Madrid was not collected. Only general chemistry and organic chemistry are offered in Madrid. Very few chemistry and biochemistry mais take these courses in Madrid.

3. Assessment Methods: Evaluation Process

What process was used to evaluate the artifacts

It should be noted that smlasample sizes (sometimes as feweight students) may be skewing the results. More meaningful results will likely require data from several years.

- 6. Closing the LoopDissemination and Use @urrentAssessment Findings
 - A. When and howl.n 4 166turd/up Mgpltyars d fe andl.o-9.7 (u)-0.2 (o)4.2 (o)4.7 (5t)-4.6 (n)-0e (5t)-4s(w)5-0.7 (e) (

C. What were the findings of the assessment

While the n is still small (n=11), so far, 100% of the students are meeting this program objective.

D. How do you plan to (commue to) use this information moving forward?

These changes will be reflected in our annual data collection process and annual assessment cycle.

IMPORTANT: Please submit any assessment tæs, rubrics)with this report as separate attachments cropied and pasted into this Word document. Please do not just refer to the assessment plan; the report should serve as a standalone document.