

Program-Level Assessment: Annual Report

Program Name (no acronyms): Chemistry MA

Department: Chemistry

Degree or Certificate Level: Graduate

College/School: Arts and Sciences

Date (Month/Year): August 2021

Assessment Contact: Scott Martin and Dana Baum

In what year was the data upon which this report is based collected? 2020-2021

In what year was the program's assessment plan most recently reviewed/updated? 2018

1. Student Learning Outcomes

Which of the program's student learning outcomes were assessed in this annual assessment cycle? (Please list the full, complete learning outcome statements and not just numbers, e.g., Outcomes 1 and 2.)

Outcome 1: Demonstrate advanced level knowledge in both (i) synthesis and materials chemistry and (ii) analytical and physical chemistry methods, with a higher level of knowledge expected in the student's area of focus.

Outcome 4: A these artifacts were collected. Clarify if any such courses were offered a) online, or c) at any other off-campus location.

For both of these outcomes, course performance as determined by final grade was collected. Only one course offered in the past year had more than 1 MA student enrolled, so that was the course used for assessment.

Course: CHEM 5440 – Bioorganic Chemistry for synthesis and materials chemistry

Madrid does not have a graduate program in Chemistry.

3. Assessment Methods: Evaluation Process

What process was used to evaluate the artifacts of student learning, and by whom? Please identify the tools(s) (e.g., a rubric) used in the process and **include them in/with this report document** (do not just refer to the assessment plan).

Criteria used for assessment was as follows based on the final score in each class:

>90% Exceeds expectations

70 - 89% Meets expectations

65 - 69% Approaching expectations

<65% Not meeting expectations

Only one course offered the past year had more than one MA student enrolled and was included for the assessment.

For Outcome 1, 2 MA students were enrolled in CHEM 5440. One student met expectations, while a second student was approaching expectations. For Fall 2020, flex enrollment was an option and students attended either in person or virtually as needed, meaning their modality could change each week. Thus, we cannot assess if modality had an effect on achievement. All graduate courses are through the SLU campus.

For Outcome 4, 2 MA students were enrolled in CHEM 5440. One student met expectations, while a second student was approaching expectations. For Fall 2020, flex enrollment was an option and students attended either in person or virtually as needed, meaning their modality could change each week. Thus, we cannot assess if modality had an effect on achievement. All graduate courses are through the SLU campus.

5. Findings: Interpretations & Conclusions

B. How has this change/have these changes been assessed?

N/A

C. What were the findings of the assessment?

N/A

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

As we see the MA program as a possible area of growth, we anticipate increased enrollment. We will consider