

College/School: CAS



Faculty evaluated artifacts collected in courses they taught using the rubrics in Appendix 1 Physics Faculty met on June 10, 2021 for Annual Assessment meeting. Each Faculty provided feedback based on each faculty observations and their evaluations of students artifacts such as tests, term papers, oral presentations. Evaluations were ranked per specific Learning Outcome and approved rubric.

Rubric is provided in Appendix 1.

Summary of the data is provided in Appendix 2.

4. Data/Results

What were the results of the assessment of the learning outcome(s)? Please be specific. Does achievement differ by teaching modality (e.g., online vs. face-to-face) or on-ground location (e.g., STL campus, Madrid campus, other off-campus site)?

Results in general indicate that individually students in the program/s meet expectation.

In this year's assessment report the achieved results were not significantly different, (averaged scores were very comparable) from previous years 2019/2020.

Additionally, in spite of different modalities than

2020), and provided data on proposed outcomes to assess. This resulted in assessing three outcomes, rather than two outcomes per year, as it was done prior to 2020.

This report will be sent to the Associate Dean/s and will eventually be posted on the website <http://www.slu.edu/the-office-of-the-provost/assessment-of-student-learning/program-level-assessment/college-of-arts-and-sciences> where it can be viewed by faculty, staff, students, and alumni.

B. How specifically have you decided to use these findings to improve teaching and learning in your program? For example, perhaps you've initiated one or more of the following:

Changes to the
Curriculum or
Pedagogies

- Course content
- Teaching techniques
- Improvements in technology
- Prerequisites
- Course sequence
- New courses

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

Same assessment rubric was applied.

C. What were the findings of the assessment?

It is early to say with certainty; this cycle was the first year of these minor changes. It will be more evident after completing a full cycle after next year.

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

After new "full cycle" of all 6 outcomes assessment completion, faculty will meet and discuss results.

IMPORTANT: Please submit any assessment tools (e.g., rubrics) with this report as separate attachments or copied and pasted into this Word

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| in science and technology | technological issues in context. | | clearly and concisely | and conveys ideas clearly and concisely. |
| 6.Students will be able to formulate numerically and solve scientific problems utilizing at least one programming language or environment | Not able to formulate a scientific problem as a set of numerical steps; and not able to produce code to solve it | Able to convert a scientific problem into numerically accessible steps with some assistance, code it and obtain results | Able to convert a scientific problem into numerically accessible steps, code it and obtain results. Investigate results and analyze errors. | Able to convert a scientific problem into numerically accessible steps, providing multiple alternative routes, code them and obtain results. Investigate results and analyze errors and optimize approaches. |

Appendix 2

Physics Assessment Data (Assessed Outcomes 1, 2, and 3 based on rubric described above)

Outcome\Level of

AttainmreW nBTd56.7

TM 4, DM 4, KMc 4.0

Average = 3.375