What were the results of the assessment of the arning outcom(s)? Please be specifiboes achievement diffeby teaching modality(e.g., online vs. facto-face) or on-ground location (e.g., STL campus, Madrid campus, other off campus site?)

The result of the assessment is that the group of juniors and seniors scored a 3, the group of sophorred a 4, and the group of teshmen scored a 0. Subjectively, the difference in artifacts was substantial.

- The freshman group had no work to show, and merely handed in an interval of numbers that showed th they had an idea what standard deviation, is ut no real idea as to how to use programming techniques to c the problem.
- 2. Thesophomore group was able to write a program that computed an interval based on standard deviation but it showed a substantial misunderstanding of the problem.
- 3. The senior group provided a program which correctly computed an interval using good programming practices and appropriate techniques for the problem.

What have you learned from these results? What does the data tell you?

This assessment provides evidence that our graduates are not coming to campus with Learning Objective 1 alr mastered, but they are mastering it through their time at SLU.

When and how didyour program faculty sharend discuss these sults and findings from this cycle of assessment

The results were shared at a department meeting on September 21. An oral presentation of the findings provided to the department, and discussion ensued.

Howspecificallyhave you decided to ustaese findings to improve teaching and learning in your progration example, perhaps you've initiated one or more of the following:

Changes to the Curriculumor Pedagogies	<ul> <li>Course content</li> <li>Teaching techniques</li> <li>Improvements in technology</li> <li>Prerequisites</li> </ul>	<ul> <li>Course sequence</li> <li>New courses</li> <li>Deletion of courses</li> <li>Changes in frequency or scheduling of course offerings</li> </ul>
Changes to the Assessment Plan	<ul> <li>Student learning outcomes</li> <li>Artifacts of student learning</li> <li>Evaluation process</li> </ul>	<ul> <li>Evaluation tools (e.g., rubrics)</li> <li>Data collection methods</li> <li>Frequency of data collection</li> </ul>

Pleasedescribethe actionsyou are taking as a result of the findings.

If no changeare beingmade, please explain why.

The assessment indicates that students are progressing from freshman to senior year in an appropriate

What isat leastone change youprogramhas implemented in recent years as a result of assessment data? The program has removed the requirement of CSCI 2300 for the data science degree, and replaced it will elective course.

## How has this changebave these changebasen assessed?

The change only occurred recently, so we do not have any assessment of the change. However, we can compare the results of this year's assessment to a cohort which has not been required to takecurred recent07A(