SAINT LOUIS UNIVERSITY.

Program Assessment: *Annual Report*

Program(s): Cert in Health Outcomes Research and Evaluation Sciences

Department: Center for Health Outcomes Research

College/School: Center for Health Outcomes Research

Date: July 7, 2018

Primary Assessment Contact: Drs. Paula Buchanan and Leslie Hinyard

1. Which program student learning outcomes were assessed in this annual assessment cycle?

   > Outcomes 1-Apply appropriate statistical methods were assessed in this cycle.

2. What data/artifacts of student learning were collected for each assessed outcome? Were Madrid student artifacts included?

   > The final labs from ORES 5010 Introduction to Biostatistics and ORES 5150: Multivariate Analysis was utilized for outcome 1.

3. How did you analyze the assessment data? What was the process? Who was involved?
   NOTE: If you used rubrics as part of your analysis, please include them in an appendix.

   > We utilized the attach rubric to assess the maximum of 10% of the students, 5 students, or all the students in each course. Since the certificate program is relatively small, we are limited to the availability of the data. All coursework being assessed was assessed by 2 faculty members and a 3rd if there was disagreement.

4. What did you learn from the data? <u>Summarize</u> the major findings of your analysis for each assessed outcome.
   NOTE: If necessary, include any tables, charts, or graphs in an appendix.

   > Outcome 1: The students demonstrated high mastery (score of 3 out of 3). Since the certificate program is relatively small, we are limited to the availability of the data.

5. How did your analysis inform meaningful change? How did you *use the analyzed data to make or implement recommendations for change* in pedagogy, curriculum design, or your assessment plan?

   > We are meeting in August, before the start of the semester to discuss how the results of this current assessment need to be addressed. Recommendations for change in pedagogy and curriculum design are expected to emerge from this meeting.
   >
   > The analysis has indicated that no changes need to be made to the assessment plan at this time.

6. Did you follow up ("close the loop") on past assessment work? If so, what did you learn? *(For example, has that curriculum change you made two years ago manifested in improved student learning today, as evidenced in your recent assessment data and analysis?)*

We conducted out last program assessment in 2014 for 6 outcomes for the MS in Health Outcomes Research and Evaluation Sciences since the Certificate program credit hours is half of the credit hours required for the MS program. We made the following changes:

- ORES 5010 is no longer be a prerequisite to the MS and Certificate programs; it is now a required course for the MS and Certificate programs and for a student to transfer in a previous graduate level inferential statistics course they must have taken it within the past 5 years
- ORES 5010 and ORES 5150 have been changed to 4 credit hours (a 1 hour lab has been added). This change was to ensure they have the skill to conduct statistical analysis in multiple statistical computer programs.

IMPORTANT: Please submit any revised/updated assessment plans to the University Assessment Coordinator along with this report.

Certificate in Health Outcomes Research and Evaluation Sciences Program Assessment Rubric

#	Certificate in Health Outcomes Research and Evaluation Sciences Program Learning Outcomes	High Mastery = 3	Average Mastery = 2	Low Mastery = 1
1	Apply appropriate statistical methods.	• Utilize appropriate statistical methods to analyze data in the chosen content area • Clearly describes the types of variables used • Clearly describes the outcomes of the data analysis • Display the data analysis visually using a graph, table, etc. • Factors that may have contributed to the data obtained • Implications of the data analyzed	• Most statistical methods were correctly applied but more could have been done with the data.	• Some statistical methods were applied but with significant errors or omissions.

Cert ORES Outcome 1 Assessment:

	Score	Notes
ORES 5010 Final Lab		Only 1 Cert ORES Student in class
1	3	
2		
3		
4		
5		
ORES 5150 Final Lab		Only 1 Cert ORES Student in class
1	3	

2		
3		
4		
5		

Summary:
The student demonstrated high mastery (score of 3 out of 3) on outcome 1.