

2020 – 21 & 2021 - 22 General Education Executive Summary

Department: Business and Mathematics Date: 05/10/21
Members involved with analysis of artifacts: Marcus Gubanyi, Brian Albright
See General Education Assessment Plan for: a) Learning Outcome; b) Background; c) Question(s); d) Methodology
Analysis of artifacts: 1). PERFORMANCE CRITERIA * - <i>How was data analyzed? (attach rubrics/scoring tools if used).</i> Artifacts will be assessed using a 5-point Likert scale (attached), which assigns a value to whether students can demonstrate complete and correct knowledge.
Summary of RESULTS*: 1). <i>Restate the assessment question(s) (from the Assessment plan):</i> Do students know basic facts, concepts and implications of Type I and Type II errors as they relate to hypothesis testing? 2). <i>Summarize the assessment results. A narrative summary is required. Charts, tables or graphs are encouraged but optional.</i> A question on hypothesis testing errors from 20 student exams from two sections taught by Marcus Gubanyi were assessed. The scores of the results are: 6 students scored 5/5; 6 students scored 4/5; 2 students scored 3/5; 3 students scored 2/5; and 3 students scored 1/5. 3). INTERPRETATION * - <i>Discuss how the results answer the assessment question(s).</i> The results show that the majority of students understand the concepts and implications of Type I and Type II errors very well. Only 3 students showed very little understanding (by scoring just 1 point) and no students scored 0. 4). <i>Observations made that were not directly related to the question(s). (i.e. interrater reliability of the scoring tool was low) none</i>
Sharing of Results: <i>When were results shared? Date:</i> 5/27/21 <i>How were the results shared? (i.e. met as a department)</i> emailed results to the rest of the department <i>Who were results shared with? (List names):</i> Brian Albright, Ed Reinke, and Andy Langewisch
Discussion of Results – Summarize your conclusions including: 1. ACTION *- <i>How will what the department learned from the assessment impact:</i> a. <i>Teaching:</i> Continue teaching Type I and II errors and their implications. b. <i>Assignment/course:</i> Add a few questions to assignments to assess understanding of Type I and II errors. c. <i>Program:</i> No change needed. d. <i>Assessment:</i> No change needed. 2. IMPACT *- <i>What is the anticipated impact of the ACTION* on student achievement of the learning outcome in the next academic year?</i> Students will better understanding Type I and II errors and their implications. 3. BUDGET IMPLICATIONS – <i>Indicate budget requirements necessary for the successful implementation of the ACTION* (i.e. an additional staff person, new equipment, additional sections of a course).</i> none
<i>If action is taken – it is recommended that the same learning outcome and assessment plan be used for a second assessment cycle.</i>
<i>What assessment questions related to the learning outcome would the program like to investigate in the future?</i> Click or tap here to enter text.
Submitted by: Marcus Gubanyi Assessment Committee Reviewed: 7/6/2021
Department Chair notified – approval/additional action needed: Approved 7/6/2021
BUDGET IMPLICATIONS – Assessment Committee Chair notified appropriate Dean: na

