

## 2023 – 24 Alternative Delivery Assessment Plan

To be completed by course instructors or program directors for 3 credit courses that are offered in **BOTH** the traditional (15 week face-to-face) format and in an alternative format (dual credit, online, and condensed time formats). Submit to the Assessment BlackBoard site.

<b>Department: Natural and Computer Sciences</b> <b>Date: 9/11/23</b> <b>Course: Chem 115</b>
<b>Alternative Format(s) – select as many as are applicable:</b> <b>Dual Credit</b> <b>Select</b> <b>Select</b>
<b>Members (must include more than course instructor only) involved with the development of this Assessment Plan: Kristy Jurchen, Robert Hermann, Kyle Johnson,</b>
<b>Course Requirements:</b> Course syllabi and credit hour calculators are collected by the Dual Credit Coordinator (Dual Credit Courses) and the respective Deans for other courses.
<b>Student Outcome:</b> <ol style="list-style-type: none"><li>1. <i>What student outcome will be assessed? Student understanding and application of the general principles of chemistry.</i></li><li>2. <b>State as follows: Students should be able to [action verb] [something].</b> Students should be able to understand and apply the general principles of chemistry.</li></ol>
<b>Question:</b> <i>What specific question(s) are you attempting to answer through assessing this student outcome? (What are you trying to find out? There may be more than one question, but no more than three.)</i> Are students able to understand and apply the general principles of chemistry?
<b>Methodology</b> <ol style="list-style-type: none"><li>1. <b>Student Outcome - OBJECT*</b><ol style="list-style-type: none"><li>a. <i>What student artifact from the <b>traditional course</b> will be used to assess the outcome?</i> multiple-choice final exam<ol style="list-style-type: none"><li>i. <i>How will the artifact be collected?</i> Scores on a standardized American Chemical Society First Semester General Chemistry final exam will be collected.</li></ol></li><li>b. <i>What student artifact from the <b>alternative course(s)</b> will be used to assess the outcome?</i> multiple-choice final exam<ol style="list-style-type: none"><li>i. <i>How will the artifact be collected?</i> Scores on a standardized American Chemical Society First Semester General Chemistry final exam will be collected.</li></ol></li></ol></li></ol>
<b>Analysis of Artifacts:</b> <ol style="list-style-type: none"><li>1) <b>Student Outcome: PERFORMANCE CRITERIA*</b><ol style="list-style-type: none"><li>a. <i>How will the artifacts be analyzed (attach rubrics/scoring tools if used):</i><ol style="list-style-type: none"><li>i. Traditional course: Exam scores (means and distributions) will be analyzed.</li><li>ii. Alternative course(s) (note SAME if the same as the traditional course): SAME</li></ol></li></ol></li><li>2) <b>COMPARABILITY - <i>How you will determine if the outcomes of the two are comparable?</i></b> <i>(For example – there will not be a statistically significant difference among the mean final exam scores).</i> Scores (means and distributions) will be analyzed and compared with all other sections of the course. A t test will be used to determine whether the alternative delivery scores are statistically different from the traditional delivery scores.</li></ol>
<b>Submitted by: Kristy Jurchen</b> <b>Date: 9/11/23</b> <b>Assessment Committee Reviewed (Date): 9/11/23</b>
<b>Submitter notified or approval/ or additional action needed: Approved 9/11/23</b>