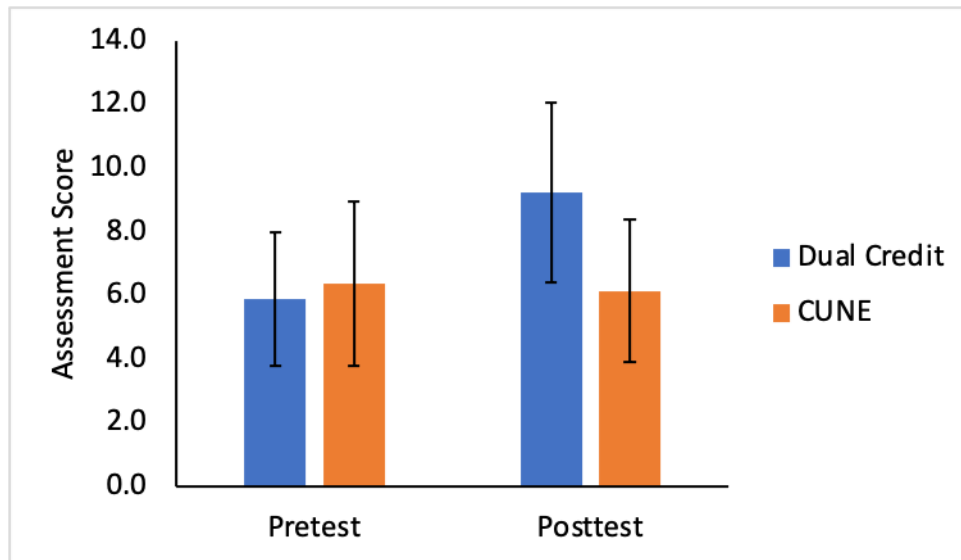


2022– 23 Alternative Delivery Executive Summary

Submit to the BlackBoard Assessment Site.

Department: Human and Social Sciences Date: 6/4/2023 Course(s): PSY 101 Alternative Format(s) – select as many as are applicable: Dual Credit Select Select
Members (must include more than course instructor only) involved with analysis of artifacts: Sara Brady and Thad Warren
See Alternative Delivery Assessment Plan for: a) Course requirement evaluation; b) Student Outcome; c) Question(s); e) Methodology
Analysis of artifacts: 1). Student Outcome: PERFORMANCE CRITERIA* - <i>How was data analyzed? (attach rubrics/scoring tools if used).</i> A 24-item knowledge test was administered via online at the beginning and end of the term. The test encompassed 12 domains (two items per domain). Pretest and posttest knowledge scores were computed from their answers. Students entered the last 4 digits of their phone number as an identifier such that pretest and posttest scores could be matched for the analysis. The pre- and posttest datasets were merged using the phone number identifier, term (i.e., Fall 2022 or Spring 2023) and instructor. The final dataset included all pretest and posttest responses for all students including CUNE and dual credit formats. 2). COMPARABILITY – <i>How did you determine if the outcomes of the traditional and alternative delivery modes were comparable?</i> (note “na” if delivery modes were not compared). Three independent sample t tests were conducted on the pretest scores, posttest scores, and change from pre- to posttest (difference scores). Due to insufficient sample size of complete data (CUNE N = 21; Dual Credit N = 51), the difference score was used to compare the two delivery formats as opposed to a paired t test from pre- to posttest for each group.
Summary of RESULTS*: 1). <i>Restate the assessment question(s) (from the Assessment plan):</i> To what extent do students' knowledge scores improve over time on a multiple-choice knowledge test in psychology for CUNE and dual-credit courses? 2). <i>Summarize the assessment results. A narrative summary is required. Charts, tables or graphs are encouraged but optional.</i> The graph below displays the results of the analysis. To compare students' baseline knowledge scores, pretest scores did not differ between dual credit (M = 5.88, SD = 2.11) and CUNE courses (M = 6.35, SD = 2.58), $t(171) = 1.30$, $p = .197$, $d = 0.20$. However, students' posttest scores difference significantly between dual credit (M = 9.22, SD = 2.82) and CUNE students (M = 6.14, SD = 2.24), $t(70) = 4.45$, $p < .001$, $d = 1.15$. When examining change over time (i.e., difference between post and pretest scores), dual credit students (M = +3.35, SD = 3.40) reported a significantly higher rate of change compared to CUNE students (M = -0.81, SD = 2.36), $t(70) = 5.12$, $p < .001$, $d = 1.33$. 3). INTERPRETATION* - <i>Discuss how the results answer the assessment question(s).</i> There was a significant change in knowledge scores over time for Dual Credit students. However, CUNE students' knowledge scores were relatively unchanged from pre- to posttest scores. 4). <i>Observations made that were not directly related to the question(s). (i.e. interrater reliability of the scoring tool was low)</i> The results from CUNE students were not representative of all CUNE PSY 101 students, because there was only one instructor who was able to administer both the pretest and posttest links to their students. One CUNE instructor only was able to collect pretest data. Furthermore, there was one Dual Credit instructor who was only able to collect posttest data. In addition, the total sample size of complete data (i.e., data from students who completed both the pretest and posttest) was larger in Fall 2022 than it was for Spring 2022 (Ns = 53, 19, respectively). This imbalance of sample size suggests that the data may not be representative of all students enrolled in PSY 101 and dual credit courses. 5). How did the outcomes of the traditional and alternative format analysis compare? Dual credit courses reported a significant increase in knowledge scores over the term, whereas CUNE courses reported no change.
Sharing of Results: <i>When were results shared? Date:</i> 6/4/2023 <i>How were the results shared? (i.e. met as a department) Email</i> <i>Who were results shared with? (List names):</i> Thad Warren and department
Discussion of Results –Summarize your conclusions including: 1. ACTION* - <i>How will what was learned from the assessment impact the alternative format teaching of this course starting the next academic year?</i> Although convenient to implement, this assessment format may not be the most reliable method to use to assess student learning. Alternative assessment methods should be explored prior to the next academic year. 2. IMPACT* - <i>What is the anticipated impact of the ACTION* on student achievement of the learning outcome in the next academic year?</i> If an alternative assessment method is identified, then deficiencies in student learning can be better identified, which can lead to better interventions that improve student achievement. 3. BUDGET IMPLICATIONS – <i>Indicate budget requirements necessary for the successful implementation of the ACTION*</i> (i.e. an additional staff person, new equipment, additional sections of a course). None

Figure: Average Pretest (N = 173) and Posttest Scores (N = 72) for Dual Credit and CUNE students.



Note. Unpaired data displayed. Number of CUNE instructors represented = 2. Number of Dual Credit instructors represented = 4.

Full Data Used in Analysis

Term	Course Delivery Method	Instructor	Student_ID	Pretest	Posttest	Difference
Fall 2022	CUNE	13	0146	6.00		
Fall 2022	CUNE	13	0175	1.00		
Fall 2022	CUNE	13	0340	5.00		
Fall 2022	CUNE	13	0547	4.00	5.00	1.00
Fall 2022	CUNE	13	0697		8.00	
Fall 2022	CUNE	13	0699	6.00		
Fall 2022	CUNE	13	0702	6.00		
Fall 2022	CUNE	13	0754	9.00		
Fall 2022	CUNE	13	0766	8.00		
Fall 2022	CUNE	13	0767	7.00	7.00	0.00
Fall 2022	CUNE	13	0821	8.00	6.00	-2.00
Fall 2022	CUNE	13	0916	5.00		
Fall 2022	CUNE	13	1033	4.00		
Fall 2022	CUNE	13	1046	5.00		
Fall 2022	CUNE	13	1271	11.00		
Fall 2022	CUNE	13	1334	8.00	6.00	-2.00
Fall 2022	CUNE	13	1546	5.00		
Fall 2022	CUNE	13	1623	9.00		
Fall 2022	CUNE	13	1727	10.00		
Fall 2022	CUNE	13	2043	6.00		
Fall 2022	CUNE	13	2280	3.00		
Fall 2022	CUNE	13	2316	3.00		
Fall 2022	CUNE	13	2331	5.00		
Fall 2022	CUNE	13	2426	7.00		
Fall 2022	CUNE	13	2479	7.00		
Fall 2022	CUNE	13	2588	5.00		

Term	Course Delivery Method	Instructor	Student_ID	Pretest	Posttest	Difference
Fall 2022	CUNE	13	2782	4.00		
Fall 2022	CUNE	13	3331	8.00	7.00	-1.00
Fall 2022	CUNE	13	3406	8.00		
Fall 2022	CUNE	13	3789	11.00		
Fall 2022	CUNE	13	3985	3.00		
Fall 2022	CUNE	13	4063	7.00		
Fall 2022	CUNE	13	4263	6.00	7.00	1.00
Fall 2022	CUNE	13	4350	3.00	6.00	3.00
Fall 2022	CUNE	13	4353	8.00		
Fall 2022	CUNE	13	4368	9.00	3.00	-6.00
Fall 2022	CUNE	13	4651	6.00		
Fall 2022	CUNE	13	4656	8.00		
Fall 2022	CUNE	13	4684	2.00		
Fall 2022	CUNE	13	4690	9.00		
Fall 2022	CUNE	13	4887	8.00		
Fall 2022	CUNE	13	4932	6.00		
Fall 2022	CUNE	13	5028	7.00		
Fall 2022	CUNE	13	5030	5.00	4.00	-1.00
Fall 2022	CUNE	13	5214	10.00	8.00	-2.00
Fall 2022	CUNE	13	5557	4.00		
Fall 2022	CUNE	13	5564	4.00		
Fall 2022	CUNE	13	5682	11.00		
Fall 2022	CUNE	13	5728	4.00		
Fall 2022	CUNE	13	5830	1.00		
Fall 2022	CUNE	13	6007	4.00		
Fall 2022	CUNE	13	6062	9.00		
Fall 2022	CUNE	13	6095	3.00		
Fall 2022	CUNE	13	6381	6.00		
Fall 2022	CUNE	13	6441	5.00		
Fall 2022	CUNE	13	6601	1.00		
Fall 2022	CUNE	13	6783	9.00		
Fall 2022	CUNE	13	6809	7.00	6.00	-1.00
Fall 2022	CUNE	13	6842	7.00	7.00	0.00
Fall 2022	CUNE	13	6848	7.00		
Fall 2022	CUNE	13	6920	8.00	9.00	1.00
Fall 2022	CUNE	13	6964	8.00	5.00	-3.00
Fall 2022	CUNE	13	7193	4.00		
Fall 2022	CUNE	13	7501	3.00		
Fall 2022	CUNE	13	7632	3.00		
Fall 2022	CUNE	13	7646	9.00		
Fall 2022	CUNE	13	7695	10.00	9.00	-1.00
Fall 2022	CUNE	13	7903	6.00		
Fall 2022	CUNE	13	8108	10.00		
Fall 2022	CUNE	13	8157	8.00		
Fall 2022	CUNE	13	8380	10.00		
Fall 2022	CUNE	13	8390	2.00	3.00	1.00
Fall 2022	CUNE	13	8454	9.00		
Fall 2022	CUNE	13	8522	3.00		
Fall 2022	CUNE	13	8593	7.00	9.00	2.00
Fall 2022	CUNE	13	8678	10.00		
Fall 2022	CUNE	13	8696	7.00	10.00	3.00

Term	Course Delivery Method	Instructor	Student_ID	Pretest	Posttest	Difference
Fall 2022	CUNE	13	8759	8.00		
Fall 2022	CUNE	13	8767	9.00		
Fall 2022	CUNE	13	8788	4.00		
Fall 2022	CUNE	13	8857	6.00		
Fall 2022	CUNE	13	8962	6.00		
Fall 2022	CUNE	13	9120	4.00	1.00	-3.00
Fall 2022	CUNE	13	9191	8.00	6.00	-2.00
Fall 2022	CUNE	13	9383	7.00		
Fall 2022	CUNE	13	9392	6.00		
Fall 2022	CUNE	13	9437	6.00		
Fall 2022	CUNE	13	9788	6.00		
Fall 2022	CUNE	13	9853	7.00		
Fall 2022	CUNE	13	9982	10.00	5.00	-5.00
Spring 2023	CUNE	12	0864	12.00		
Spring 2023	CUNE	12	2807	5.00		
Spring 2023	CUNE	12	3051	8.00		
Spring 2023	CUNE	12	6496	5.00		
Spring 2023	CUNE	12	7234	7.00		
Spring 2023	CUNE	13	1234	2.00		
Spring 2023	CUNE	13	9154	0.00		
Spring 2023	CUNE	16	0550	8.00		
Spring 2023	CUNE	16	2178	8.00		
Spring 2023	CUNE	16	9731	7.00		
Fall 2022	Dual Credit	10	0553		8.00	
Fall 2022	Dual Credit	10	0893		7.00	
Fall 2022	Dual Credit	10	1676		8.00	
Fall 2022	Dual Credit	10	2666		7.00	
Fall 2022	Dual Credit	10	3340		7.00	
Fall 2022	Dual Credit	10	3485		6.00	
Fall 2022	Dual Credit	10	3551		9.00	
Fall 2022	Dual Credit	10	4204		5.00	
Fall 2022	Dual Credit	10	6383		8.00	
Fall 2022	Dual Credit	10	6433		5.00	
Fall 2022	Dual Credit	10	7841		7.00	
Fall 2022	Dual Credit	10	8246		8.00	
Fall 2022	Dual Credit	10	9060		9.00	
Fall 2022	Dual Credit	10	9311		2.00	
Fall 2022	Dual Credit	10	9632		6.00	
Fall 2022	Dual Credit	13	Tron	5.00		
Fall 2022	Dual Credit	15	0255	4.00	11.00	7.00
Fall 2022	Dual Credit	15	0328	4.00	12.00	8.00
Fall 2022	Dual Credit	15	0419		12.00	
Fall 2022	Dual Credit	15	0511	6.00		
Fall 2022	Dual Credit	15	0813	9.00	10.00	1.00
Fall 2022	Dual Credit	15	0966	4.00	1.00	-3.00
Fall 2022	Dual Credit	15	1013	5.00	7.00	2.00
Fall 2022	Dual Credit	15	1171	5.00		
Fall 2022	Dual Credit	15	1182	5.00	12.00	7.00
Fall 2022	Dual Credit	15	1227	10.00	12.00	2.00
Fall 2022	Dual Credit	15	2024	10.00	12.00	2.00
Fall 2022	Dual Credit	15	2160	7.00	12.00	5.00

Term	Course Delivery Method	Instructor	Student_ID	Pretest	Posttest	Difference
Fall 2022	Dual Credit	15	2852	3.00	12.00	9.00
Fall 2022	Dual Credit	15	2925	5.00		
Fall 2022	Dual Credit	15	2939	8.00	9.00	1.00
Fall 2022	Dual Credit	15	3330	7.00	11.00	4.00
Fall 2022	Dual Credit	15	3977	9.00		
Fall 2022	Dual Credit	15	4157	4.00	12.00	8.00
Fall 2022	Dual Credit	15	4466	4.00	10.00	6.00
Fall 2022	Dual Credit	15	4853	7.00		
Fall 2022	Dual Credit	15	4975	7.00	9.00	2.00
Fall 2022	Dual Credit	15	5311	5.00	7.00	2.00
Fall 2022	Dual Credit	15	6342	5.00	11.00	6.00
Fall 2022	Dual Credit	15	6406	7.00	11.00	4.00
Fall 2022	Dual Credit	15	6494	6.00	12.00	6.00
Fall 2022	Dual Credit	15	6540		8.00	
Fall 2022	Dual Credit	15	7027	6.00	11.00	5.00
Fall 2022	Dual Credit	15	7279	4.00	11.00	7.00
Fall 2022	Dual Credit	15	7394	3.00	11.00	8.00
Fall 2022	Dual Credit	15	7905	2.00		
Fall 2022	Dual Credit	15	8132	2.00	11.00	9.00
Fall 2022	Dual Credit	15	8275	6.00	12.00	6.00
Fall 2022	Dual Credit	15	8420	5.00	8.00	3.00
Fall 2022	Dual Credit	15	8699	7.00	12.00	5.00
Fall 2022	Dual Credit	15	8906	6.00	11.00	5.00
Fall 2022	Dual Credit	15	9122		12.00	
Fall 2022	Dual Credit	15	9192	5.00		
Fall 2022	Dual Credit	15	9274	5.00	12.00	7.00
Fall 2022	Dual Credit	15	9331		9.00	
Fall 2022	Dual Credit	15	9372	5.00	8.00	3.00
Fall 2022	Dual Credit	15	9608	3.00	12.00	9.00
Fall 2022	Dual Credit	15	9665	8.00	11.00	3.00
Fall 2022	Dual Credit	15	9958	8.00	10.00	2.00
Spring 2023	Dual Credit	4	0082	2.00		
Spring 2023	Dual Credit	4	0859	7.00	7.00	0.00
Spring 2023	Dual Credit	4	1743	8.00		
Spring 2023	Dual Credit	4	1984	6.00		
Spring 2023	Dual Credit	4	2398	8.00		
Spring 2023	Dual Credit	4	2883	3.00		
Spring 2023	Dual Credit	4	2946	5.00	12.00	7.00
Spring 2023	Dual Credit	4	3646	5.00		
Spring 2023	Dual Credit	4	3724	7.00		
Spring 2023	Dual Credit	4	3919	6.00	5.00	-1.00
Spring 2023	Dual Credit	4	4166	3.00	5.00	2.00
Spring 2023	Dual Credit	4	5082	7.00		
Spring 2023	Dual Credit	4	5168	5.00		
Spring 2023	Dual Credit	4	5263	4.00		
Spring 2023	Dual Credit	4	5981	6.00		
Spring 2023	Dual Credit	4	6227		0.00	
Spring 2023	Dual Credit	4	6271	3.00	7.00	4.00
Spring 2023	Dual Credit	4	7318	7.00	11.00	4.00
Spring 2023	Dual Credit	4	7681	11.00	9.00	-2.00
Spring 2023	Dual Credit	4	7880	9.00	10.00	1.00

Term	Course Delivery Method	Instructor	Student_ID	Pretest	Posttest	Difference
Spring 2023	Dual Credit	4	8098	8.00	9.00	1.00
Spring 2023	Dual Credit	4	8755	7.00	5.00	-2.00
Spring 2023	Dual Credit	4	9595	9.00		
Spring 2023	Dual Credit	4	9680	8.00		
Spring 2023	Dual Credit	16	0152	8.00	4.00	-4.00
Spring 2023	Dual Credit	16	1259	4.00	10.00	6.00
Spring 2023	Dual Credit	16	1296	5.00	4.00	-1.00
Spring 2023	Dual Credit	16	3832	3.00	6.00	3.00
Spring 2023	Dual Credit	16	4219	10.00		
Spring 2023	Dual Credit	16	6025	6.00	5.00	-1.00
Spring 2023	Dual Credit	16	6524	4.00		
Spring 2023	Dual Credit	16	7576	5.00	8.00	3.00
Spring 2023	Dual Credit	16	8279	9.00	8.00	-1.00
Spring 2023	Dual Credit	16	9582	6.00	4.00	-2.00
Spring 2023	Dual Credit	16	9843	5.00	8.00	3.00