

GBC Class/Course Assessment Report

Course Prefix, Number, and Title: SUR 495 Senior Capstone
 Department: Computer Technologies Department
 Instructor: Byron Calkins

Academic Year: Spring 2024
 Section Number(s): 1001
 Is this a GenEd class? No __x__

Complete and submit your assessment report electronically to your department chair. As needed, please attach supporting documents and/or a narrative description of the assessment activities. You may use as many or as few outcomes as necessary.

Class/Course Outcomes	Assessment Measures	Assessment Results	Any Changes Made as a Result of Assessment
In the boxes below, summarize the outcomes assessed in your class or course during the last year. If this is a GenEd class, include the appropriate GenEd objectives.	In the boxes below, summarize the methods used to assess course outcomes during the last year. Include the criterion you'll use to judge whether or not students have achieved the expected outcome.	In the boxes below, summarize the results of your assessment activities during the last year. Include your judgement as to whether or not the criterion for student achievement has been met.	In the boxes below, summarize how you plan to use the results to improve student learning.
Outcome #1: Define Capstone Problem Statement	Assessment Measure: Present project proposal in group setting with peer to peer evaluation and instructor feedback. Criterion for achievement: 80% of all students will score a 70% or better.	Results:8/8 100% Criterion Met: Yes	Action Plan: No action required as all students participated. Previous 2018 Action Plan: Two students did not attend the project proposal presentation. In the future, I should weight this more so students do not miss.
Outcome #2: Present Project Presentation	Assessment Measure: In the beginning of the semester, I ask students to define what is the basic problem, question, or hypothesis they are investigating. I ask them why it is important. I require them to state the rationale for the study briefly and with great clarity. I also request they explain what their research will accomplish in relation to testing their hypotheses or investigating their problem statement. Students will address the problem by discussing important previous research and publications. I require them to cite and analyze the MAJOR work that has been done on the topic, explaining the	Results: 8/8 100% Criterion Met: Yes	Action Plan: No action required

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	<p>prevailing ideas about the subject, and show why the work they will do is necessary and important. The purpose of the literature review is to give the reader the factual and conceptual background to be able to understand the project. I ask the students to describe verbally and visually the study area they will work in. I ask them to justify why that area and why that size. Class members are also required to explain what methods and techniques will be used and why are they the most suitable. All statistical methods need to be specific and justified. A project schedule is also developed to establish a reasonable but brisk timetable for completion of the project. This student schedule Includes all phases of the capstone, i.e. fieldwork, research, data assembly, data analysis, graphics and maps generation, writing, editing, anticipated outcomes and their potential significance, and presenting.</p> <p>Criterion for achievement: 80% of all students will score a 70% or better.</p>		
<p>Outcome #3: Present Project Poster</p>	<p>Assessment Measure:</p> <p>Poster artifacts must include:</p> <ul style="list-style-type: none"> • Title • Study Area • Objectives • Methods/Results • Border • Summary/Data Overview • Include your name and date produced <p>Criterion for achievement: 80% of all students will score a 70% or better.</p>	<p>Results: 6/8</p> <p>100%</p> <p>Criterion Met: Yes</p>	<p>Action Plan: Action required – A border is a common cartographic element. Somehow this is being missed as 6/8 posters had a border. Change poster rubric to require border or receive a zero. Currently it is only a 5-point deduction.</p> <p>Previous 2018 Action Plan: Remind students they need to have a border around their poster.</p>

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Notes:

Students did excellent on all assignments with 100% of the students scoring above 70% on all measurable outcomes, including the proposal presentation.

The average length of each research paper was 29 pages. The average length of each presentation was 30 minutes. All final submitted work meets the minimum requirements for a senior capstone course.

Topics covered in this years' capstone include Bridging Boundaries: A Land Surveying Initiative for Safer and More Connected Mountain Bike Trails in Southern Nevada, Mineral Trespass on Federal Lands, Topographic Survey for St. Peter's Church, Data Accessibility a Cape Conundrum, Coke Coven Playground Remediation Retracement Survey, Photogrammetrically Derived Products in Support of the Travertine Hot Springs Trail Alignment, Accuracy of Single Beam Bathymetric Surveys, and Between a Rock and a Hard Place - Lagomarsino Canyon Petroglyphs.

I have no actionable assessment recommendations for this course, other than to do a better job conveying poster requirements, specifically adding a border to the poster. I will use the rubric to make sure every poster submitted has a border.

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I have reviewed this report:

Department Chair

Date _____

Dean

Date _____

Vice President of Academic Affairs and Student Services

Date _____