



Academic Program Assessment Report for AY 2022-2023

(Due: June 1, 2023)

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Program: Civil Engineering Technology

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Please describe the 2022-2023 assessment activities and follow-up for your program below. Please complete this form for each undergraduate major, minor, certificate, and graduate program (e.g., B.A., B.S., B.A.S, M.S.) in your department. Please copy any addenda (e.g., rubrics) and paste them in this document, save and submit it to both the Dean of your college/school and to the Executive Director for Assessment as an email attachment by June 1, 2023. You'll also find this form on the assessment website at <https://www.csupueblo.edu/assessment-and-student-learning/resources.html>. Thank you.

Brief statement of Program mission and goals: The Civil Engineering Technology program at Colorado State University Pueblo is to provide an integrated educational experience so that its graduates are:

- prepared to apply established engineering principles and standards of practice in developing solutions to civil engineering problems, and
- prepared for successful careers in civil engineering by providing them with the ability to contribute to engineering teams in various practice areas including engineering analysis and design, construction planning and management, experimentations, technical documentation, and system operations and maintainance.

I. Assessment of Student Learning Outcomes (SLOs) in this cycle. Including processes, results, and recommendations for improved student learning. Use Column H to describe improvements planned for 2023-2024 based on the assessment process.

A. Which of the program SLOs were assessed during this cycle? Please include the outcome(s) verbatim from the assessment plan.	B. When was this SLO <u>last</u> reported on prior to this cycle? (semester and year)	C. What method was used for assessing the SLO? Please include a copy of any rubrics used in the assessment process.	D. Who was assessed? Please fully describe the student group(s) and the number of students or artifacts involved (N).	E. What is the expected proficiency level and how many or what proportion of students should be at that level?	F. What were the results of the assessment? (Include the proportion of students meeting proficiency.)	G. What were the department's conclusions about student performance?	H. What changes/improvements to the <u>program</u> are planned based on this assessment?
4. Ability to conduct standard tests, measurements, and experiments and to analyze and interpret results to improve processes.	New SLOs. Aspects of the SLOs have previously been assessed under different titles.	Faculty Observation of students and review of lab reports in CET 315, CET 317 and CET 372 classes	All students enrolled in classes : CET 315(12) CET 317(13) and CET 372(12) For teamwork, all students in Senior project CET 456 (10) teamwork classes CET 456 (10)	At least 75% of sampled students should attain 75% of the score	In all cases, 80% or more of the students in those lab classes scored at least 75% in the respective performance areas.	Improvement recommended but not required at this time.	None at this time
5. Ability to function effectively a steam members or leads	As reported above	Observation of students in CET 456, and lab activity of CET 315, 317, 372 classes					

Comments on part I:

Table 1: Grading Rubric for Performance Indicators

	Good	Fair	Poor	Unable
Observed standard lab practice and properly operates lab instrument	100%	75%	50	0
Identified appropriate data, selects the right equipment and correct data collection protocols	100%	75%	50	0
Applied correct data analysis tools including statistics and completed the required analysis and makes correct inferences	100%	75%	50	0

II. Closing the Loop. Describe at least one data-informed change to your curriculum during the 2022-2023 cycle. These are those that were based on, or implemented to address, the results of assessment from previous cycles.

A. What SLO(s) or other issues did you address in this cycle? Please include the outcome(s) verbatim from the assessment plan.	B. When was this SLO last assessed to generate the data which informed the change? Please indicate the semester and year.	C. What were the recommendations for change from the previous assessment column H and/or feedback?	D. How were the recommendations for change acted upon?	E. What were the results of the changes? If the changes were not effective, what are the next steps or the new recommendations?
1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly defined engineering problems	Fall 2020 and 2021	Enhance teaching methods in in CET 202 and possible integrate skill building	The instructor worked more examples in class to demonstrate multiples ways of solving problems.	The instructor observed that students have difficulty in applying trigonometry and recommended a refresher for trigonometry at the beginning of the course.

Comments on part II: