

## Olorado Academic Program Assessment Report for AY 2019-2020 (Due: June 1, 2020)

(Due: June 1, 2020)	Date report completed: 6/1/2020
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**Brief statement of Program mission and goals:** The Civil Engineering Technology (CET) 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 (a) engineering analysis and design, (b) construction planning and management, (c) experimentation, (d) technical documentation, and (e) systems operations or maintenance.

**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 2019-2020 based on the assessment process.

program SLOs were assessed during this cycle? Please include the outcome(s) verbatim from the assessment plan.    Name this sude in the outcome(s) verbatim from the assessment plan.		5 144						
were assessed during this cycle? Please include the outcome(s) verbatim from the assessment plan.  h.An understanding of the need for and ability to engage in self-directed continuing professional  SLO last reported assessing the on prior to this cycle?  Rubric is shown in Figure 1.  SLO? Please fully describe the student on prior to this cycle?  Include a copy of any rubrics used in the assessment plan.  SLO? Please include a copy of any rubrics used in the assessment process.  Please fully describe the student prouportion of students or artifacts involved (N).  A presentation on CET 101 class  Rubric is shown in Figure 1.  SLO? Please fully describe the student student proportion of students should be at that level?  A presentation on CET 101 class  Rubric is shown in Figure 1.  SLO? Please include the on prior to this cycle? (Include the proportion of students should be at that level?  A presentation on CET 101 class  A presentation on CET	A. Which of the	B. When	C. What	D. Who was	E. What is	F. What were	G. What were the	H. What
during this cycle? Please include the on prior to this cycle? verbatim from the assessment plan.  An process.  h.An understanding of the need for and ability to engage in self-directed continuing professional  An end to the need for and ability to engage in self-directed continuing professional  An end to this cycle? (semester and year)  And year)  And year)  assessing the student student student student student should be at students or artifacts involved (N).  All students should be at attended the class  All students should attain 75% score  All students should attain 75% score  All students should attain 75% score  And year)  A	program SLOs	was this	method was	assessed?	the expected	the results of	department's	changes/improvements
Please include the outcome(s) verbatim from the assessment plan.    Description of this cycle? (semester and year)	were assessed	SLO <u>last</u>	used for	Please fully	proficiency	the	conclusions about	to the <u>program</u> are
outcome(s) verbatim from the assessment plan.this cycle? (semester and year)include a copy of any rubrics used in the assessment process.group(s) and the number of students or artifacts involved (N).what proportion of students should be at that level?proportion of students should be at that level?proportion of students meeting proficiency.)As the target is met, nothing has been done now, but this result will be discussed in the next departmental meeting to findIn the next assessment cycle, the improvement trend will be expected.	during this cycle?	reported	assessing the	describe the	level and	assessment?	student	planned based on this
verbatim from the assessment plan.(semester and year)of any rubrics used in the assessment process.the number of students involved (N).proportion of students should be at that level?students meeting proficiency.)students meetingh.An understanding of the need for and ability to engage in self-directed continuing professionalA presentation on CET 101 classAll students attended the class75% students should attain 75% score87.5% of 100% of the students completed the learning module.As the target is met, nothing has been done now, but this result will be discussed in the next departmental meeting to findIn the next assessment cycle, the improvement trend will be expected.	Please include the	on prior to	SLO? Please	student	how many or	(Include the	performance?	assessment?
assessment plan.    A presentation on CET 101 class   the need for and ability to engage in self-directed continuing professional   Situdents assessment process   In the next continuing professional   Situdents should be at that level?   Situdents should be at that level?   Situdents should be at that level?   Situdents should attain should attain assessment proficiency.)   Situdents should attain or artifacts should be at that level?   Situdents should attain of the students completed the learning module.   Situdents should attain proficiency.)   In the next assessment of the students completed the learning meting to find   Situdents should attain proficiency.)   In the next assessment of the students completed the learning meting to find   Situdents should attain proficiency.)   In the next assessment of the students completed the learning meting to find   Situdents should attain proficiency.)   In the next assessment of the students of the s	outcome(s)	this cycle?	include a copy	group(s) and	what	proportion of		
assessment process.    A presentation on CET 101 class   Should be at that level?	verbatim from the	(semester	of any rubrics	the number	proportion of	students		
process. involved (N).  A presentation on CET 101 class understanding of the need for and ability to engage in self-directed continuing professional  a process. involved (N).  A presentation on CET 101 attended the class (N).  All students attended the class (N).  All students should attain of the students completed the learning module.  Brushier involved (N).  As the target is met, nothing has been done now, but this result will be discussed in the next departmental meeting to find	assessment plan.	and year)	used in the	of students	students	meeting		
h.An understanding of the need for and ability to engage in self-directed continuing professional (N).  (A) presentation on CET 101  (All students should attain of the students completed the learning medule.  (N).  (N).  (N).  (N).  (N).  (N).  (N).  (A) the target is met, nothing has been done now, but this result will be discussed in the next departmental meeting to find			assessment	or artifacts	should be at	proficiency.)		
h.An understanding of the need for and ability to engage in self-directed continuing professional  2016-2017 A presentation on CET 101 class  All students attended the class  All students should attain 75% students should attain 75% score  75% students should attain 75% score  75% score  75% students should attain 75% score  75% score  75% score  75% students should attain 75% score  75% score  87.5% of 100% of the students completed the learning met, nothing has been done now, but this result will be discussed in the next departmental meeting to find  87.5% of 100% of the students of the students of the students attended the learning met, nothing has been done now, but this result will the next departmental meeting to find			process.	involved	that level?			
h.An understanding of the need for and ability to engage in self-directed continuing professional on CET 101 attended the class on CET 101 class should attain 75% score should attain 75% score should attain 75% score of the students completed the learning been done now, but this result will be discussed in the next departmental meeting to find cycle, the improvement trend will be observed and continuous improvement will be expected.				(N).				
understanding of the need for and ability to engage in self-directed continuing professional  class  the class  the class  75% score  completed the learning but this result will be discussed in the next departmental meeting to find  trend will be observed and continuous improvement will be expected.		2016-2017	A presentation	All students	75% students	87.5% of 100%	As the target is	In the next assessment
the need for and ability to engage in self-directed continuing professional learning but this result will and continuous improvement will be expected.    Particle	h.An		on CET 101	attended	should attain	of the students	met, nothing has	cycle, the improvement
ability to engage in self-directed continuing professional  Rubric is shown in Figure 1.  Rubric is shown in the next departmental meeting to find improvement will be expected.	understanding of		class	the class	75% score	completed the	been done now,	trend will be observed
in self-directed continuing professional shown in Figure 1. the next departmental meeting to find the next departmental meeting to find	the need for and					learning	but this result will	and continuous
continuing professional Figure 1. departmental meeting to find	ability to engage		Rubric is			module.	be discussed in	improvement will be
professional meeting to find	in self-directed		shown in				the next	expected.
	continuing		Figure 1.				departmental	
	professional						meeting to find	
development   out how to	development						out how to	
maintain this							maintain this	

**Program:** Civil Engineering Technology

i.An understanding of and commitment to address professional and ethical responsibilities including a respect for diversity	2016-2017	A presentation on CET 101 class  Rubric is shown in Figure 2.	All students attended the class	75% students should attain 75% score	77.81 of 100% of the students completed the learning module which included an instructional series on the concept of a ethics in civil engineering.	achievement and how to improve continuously.  As the target is met, nothing has been done now, but this result will be discussed in the next departmental meeting to find out how to maintain this achievement and how to improve	In the next assessment cycle, the improvement trend will be observed and continuous improvement will be expected.
j.A knowledge of the impact of engineering technology solutions in a societal and global context	2016-2017	Quiz 11 of  CET 207  Rubric is shown in Table 1.	All students attended the class	75% students should attain 75% score	83% attained 75%	continuously.  As the target is met, nothing has been done now, but this result will be discussed in the next departmental meeting to find out how to maintain this achievement and how to improve continuously.	In the next assessment cycle, the improvement trend will be observed and continuous improvement will be expected.
k.A commitment to quality, timeliness, and continuous improvement	2016-2017	Exam 1 of CET 405 Rubric is shown in Table 1.	All students attended the class	75% students should attain 75% score	85% attained 75%	As the target is met, nothing has been done now, but this result will be discussed in the next departmental	In the next assessment cycle, the improvement trend will be observed and continuous improvement will be expected.

						meeting to find	
						out how to	
						maintain this	
						achievement and	
						how to improve	
						continuously.	
CET Specific f.	2016-2017	Assignment 3	All students	75% students	95% attained	As the target is	In the next assessment
Perform economic		in CET 305	attended	should attain	75%	met, nothing has	cycle, the improvement
analyses and cost			the class	75% score		been done now,	trend will be observed
estimates related		Rubric is				but this result will	and continuous
to design,		shown in Table				be discussed in	improvement will be
construction,		1.				the next	expected.
operations and						departmental	
maintenance of						meeting to find	
systems						out how to	
associated with						maintain this	
civil engineering;						achievement and	
						how to improve	
						continuously.	
CET Specific g.	2016-2017	Exam on	All students	75% students	100% attained	As the target is	In the next assessment
Select appropriate		4/6/2020 on	attended	should attain	75%	met, nothing has	cycle, the improvement
engineering		CET 404	the class	75% score		been done now,	trend will be observed
materials and						but this result will	and continuous
practices, and;		Rubric is				be discussed in	improvement will be
		shown in Table				the next	expected.
		1.				departmental	
						meeting to find	
						out how to	
						maintain this	
						achievement and	
						how to improve	
						continuously.	
CET Specific h.	2016-2017	Exam 1 of CET	All students	75% students	84% attained	As the target is	In the next assessment
Perform standard		473	attended	should attain	75%	met, nothing has	cycle, the improvement
analysis and			the class	75% score		been done now,	trend will be observed
design in at least						but this result will	and continuous

three sub-	Rubric is	be discussed in	improvement will be
disciplines related	shown in Table	the next	expected.
to civil	1.	departmental	
engineering.		meeting to find	
		out how to	
		maintain this	
		achievement and	
		how to improve	
		continuously.	

## **Table 1. Grading Rubric for Different Performance Indicators**

	Good	Fair	Poor	Unable
Observes good lab practice and operates instrumentation with ease	100%	75%	50%	0%
Determines data that are appropriate to collect and selects appropriate equipment, protocols, etc. for measuring the appropriate variables to get required data	100%	75%	50%	0%
Uses appropriate tools to analyze data and verifies and validates experimental results including the use of statistics to account for possible experimental error	100%	75%	50%	0%

Comments on part I: All SLOs assessed during this cycle met the expected achievement level. In the next assessment cycle, the improvement trend will be especially observed and possible a revision of the target will be discussed in a program meeting.

## **II. Closing the Loop. Describe at least one data-informed change to your curriculum during the 2019-2020 cycle.** These are those that were based on, or implemented to address, the results of assessment from previous cycles.

			,	
A. What SLO(s)	B. When was this	C. What were the	D. How were the	E. What were the results of the changes? If
or other issues	SLO last assessed to	recommendations for change	recommendations for	the changes were not effective, what are the
did you address	generate the data	from the previous	change acted upon?	next steps or the new recommendations?
in this cycle?	which informed the	assessment column H and/or		
Please include	change?	feedback?		
the outcome(s)	Please indicate the			
verbatim from	semester and year.			
the assessment				
plan.				
Outcome c (CET	2018-2019	Intructor will work to	Intructor put more effort	It is expected to improve on this SLO. The SLO
Sepcific)- Utilize		enhance teaching methods	on the topic to make sure	is scheduled to be assessed in the next cycle.
surveying		and possibly integrate skill	students achieved this SLO.	
methods		building modules possibly		
appropriate for		through Blackboard. In the		
land		next assessment cycle, the		
measurement		improvement trend will be		
and/or		especially observed and		
construction		possible remedy will be		
layout;		discussed in a program		
		meeting.		

Comments on part II: In the next assessment cycle, the improvement trend will be especially observed and possible remedy will be discussed in a program meeting.