

Outcomes Assessment

Student Learning Outcomes and Degree Program Objectives



CAL POLY

Construction Management

COLLEGE OF ARCHITECTURE
& ENVIRONMENTAL DESIGN

PLO# 3. Create a construction project safety plan.

Assessment Measure Summary Results

Assessment Measure 1: Individual Assignment with Rubric		MEETS TARGET
Type:	Direct Measure	
Course & Assignment:	CM 413 (Jobsite Construction Management); Safety Plan Lab	
Goal:	Class average is 70% or better each quarter.	
Date(s) of OAM reviews:	AY 2023-24 AY 2024-25 (Fall 2024, Winter 2025, Spring 2025)	
Results:	Class average exceeds 80% each quarter; overall average is 83.6% Class average exceed 79% each quarter; overall average is 82%	
Revisions made to instrument:	None.	
Actions Taken and Results:	At the mid-year review, it was discovered that students have been taking the course and completing the assignment, but data collection and reporting have been inconsistent. When new faculty took over, there was a gap in data collection. To prevent this from happening again, faculty will receive continuous training and reminders during department meetings on how to collect data for outcomes assessment and will share best practices for collecting and sharing data to avoid future gaps. A shared file has been created to easily identify when data has been collected so data collection can happen timely. Results are now recorded more consistently (starting Fall 2025).	
Recommendations for Improvement:	With the semester conversion, this class will be offered in students' first year. The assessment measure is fully developed and will be shared with CM 3314 – Heavy Civil Construction Management faculty for integration. Faculty should collaborate during the first year to ensure the rubric is consistent and validated.	

Assessment Measure 2: Survey – Graduating Seniors		GOAL PARTIALLY MET
Type:	Indirect Measure	
Goal:	80% of students rate their ability as good and above.	
Dates of OAM reviews:	June 2021 (for AY 2020-2021); June 2024 (for AY 2023-2024); June 2025 (for AY 2024-2025); June 2026 (for AY 2025-26)	
Results:	June 2021: 87% of students rated abilities as good or above (n=45) June 2024: 86% of students rated abilities as good or above (n=51) June 2025: 78% of students rated abilities as good or above (n=9) June 2026: 90% of students rated abilities as good or above (n=18)	
Actions Taken:	Student-led senior projects collected qualitative data using focus groups to get additional insights (June 2024 and June 2025).	
Recommendations for Improvement:	Work with ASCM student club to increase response rates.	

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Assessment Measure 3: Survey – Industry Employer		GOAL MET
Type:	Indirect Measure	
Goal:	50% of employers rate students' abilities as good and above.	
Dates of OAM reviews:	June 2021 (for AY 2020-21); June 2024 (for AY 2023-2024); June 2026 (for AY 2025-2026)	
Results:	June 2021: 85% of employers rated abilities as good or above (n=21) June 2024: 54% of employers rated abilities as good or above (n=13) June 2026: 87% of employers rated abilities as good or above (n=30)	
Actions Taken:	Advertising survey at annual CMAC meeting to increase response rate	
Recommendations for improvement:	Survey lacks consistent responses; work with CMAC Committee to determine ways to increase response rates.	

Assessment Measure 4: AIC Exam		GOAL MET
Type:	Indirect Measure (through Fall 2023)	
Goal:	The department's performance is better than the national average.	
Dates of OAM review:	Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023	
Results:	100% of students outperformed the national average on each exam (Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023).	
Actions Taken:	None	
Recommendations for Improvement:	After Fall 2023, the AIC exam no longer reports results for this measure; discontinue use of AIC exam as assessment measure for this PLO	

Method of Assessment:

This assessment evaluates students' creation of a project safety and logistics plan using a standardized rubric created and validated by faculty.

Actions taken:

Direct Assessment Measure:

The Safety and Logistics assignment has not changed, but the data reporting and collection process has been streamlined for easier collection, review, and evaluation of student work.

Discussion:

Students consistently demonstrate strong performance in the direct assessment of this outcome, displaying thorough understanding and effective application of the required skills. Additionally, results from indirect assessments further confirm that students are achieving and retaining the intended learning objectives over time.

Recommendations for Improvement:

Starting in Fall 2026, we will transition to a semester-based curriculum, and this course will be completed in student's first year. After carefully reviewing the curriculum map, a more appropriate

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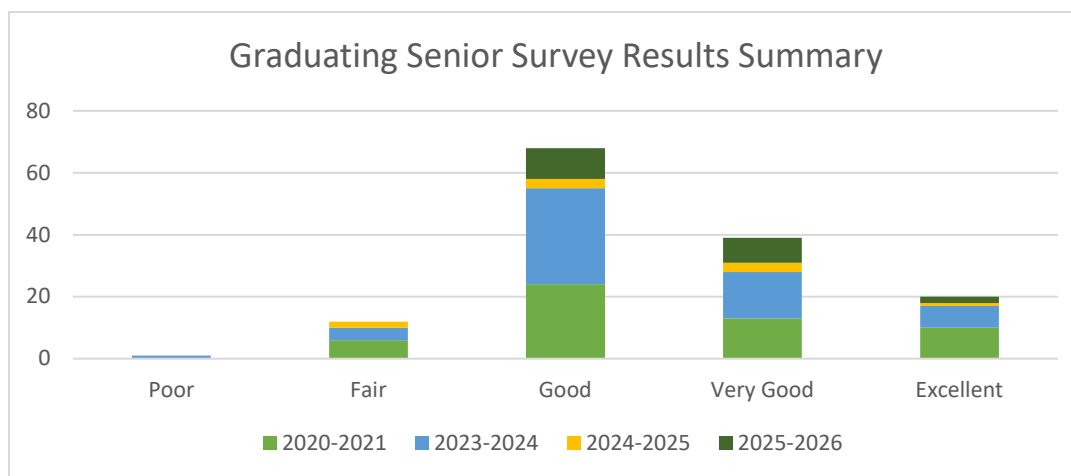
placement for this assessment could be in CM 3314 – Heavy Civil Construction Management. Faculty are working to incorporate this assessment into the new course curriculum.

Additional Data for Outcomes Assessment Measures:

Quarter	Total number of CM students	Number of CM students who completed the assignment	Total number of CM students with 70% or more on the assignment	Percent of students with 70% or more
Fall 2024	27	23	19	83%
Winter 2025	15	13	11	85%
Winter 2025	26	24	19	79%
Spring 2025	28	25	21	84%

Assessment Measure 2: Survey – Graduating Seniors

Rating	2020-2021	2023-2024	2024-2025	2025-2026
Poor	0	0	1	0
Fair	7	8	1	2
Good	19	24	4	6
Very Good	17	17	2	7
Excellent	9	10	1	5
Total Responses	52	59	9	20
Total - Good or Better	45	51	7	18
Percentage - Good or Better	87%	86%	78%	90%



Assessment Measure 3: Survey – Industry Employers

Rating	2020-2021	2024-2025	2025-2026
Poor	0	2	0
Fair	3	4	3
Good	8	4	4
Very Good	7	3	7
Excellent	2	0	9

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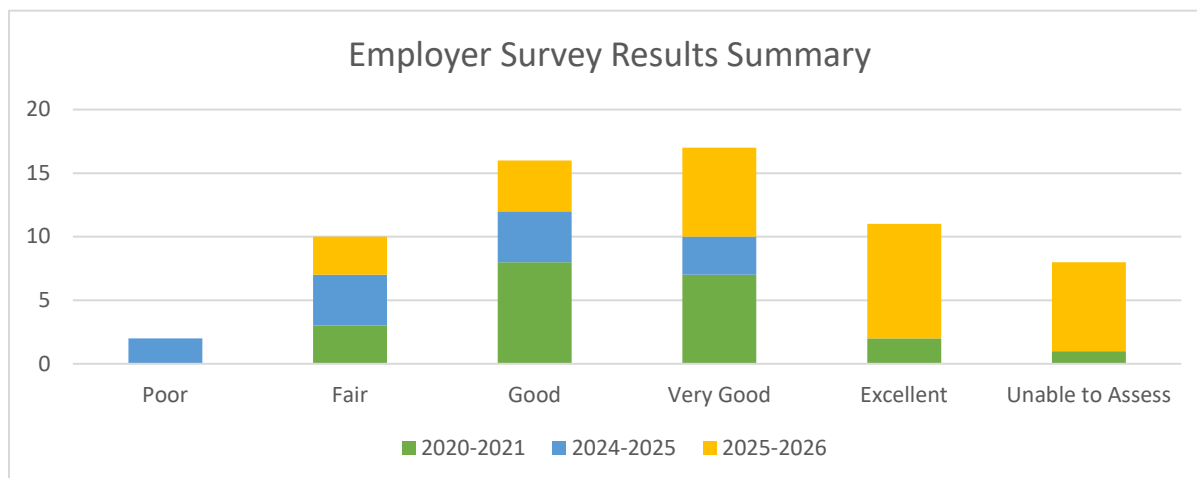


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Unable to Assess	1	0	7
Total Responses	21	13	30
Total - Good or Better	17	7	20
Percentage - Good or Better (excludes unable to assess responses)	85%	54%	87%



Assessment Measure 4: AIC Exam Results Summary:

Note: The AIC exam stopped reporting PLO3 results after Fall 2023.

	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025	Spring 2026
School Average	78%	71%	73%	82%	76%	0%	0%	0%	0%	0%
National Average	68%	69%	68%	64%	64%	0%	0%	0%	0%	0%

