

Outcomes Assessment

Student Learning Outcomes and Degree Program Objectives



CAL POLY

Construction Management

COLLEGE OF ARCHITECTURE
& ENVIRONMENTAL DESIGN

PLO# 7. Analyze methods, materials, and equipment used to construct projects.*

Assessment Measure Summary Results

Assessment Measure 1: Exam Question with Rubric		MEETS TARGET
Type:	Direct Measure	
Course & Assignment:	CM 313 (Commercial Construction Management); Embedded Question in Exam with Rubric	
Goal:	80% of students achieve 80% or better	
Date(s) of OAM reviews:	June 2021 (for AY 2020-2021) June 2022 (for AY 2021-2022) June 2023 (for AY 2022-2023) June 2025 (for AY 2024-2025) June 2026 (for AY 2025-2026)	
Results:	91% of students achieved 80% or higher in AY 2020-2021 95% of students achieved 80% or higher in AY 2021-2022 97% of students achieved 80% or higher in AY 2022-2023 99% of students achieved 80% or higher in AY 2024-2025 99% of students achieved 80% or higher in AY 2025-2026	
Revisions made to instrument:	None.	
Actions Taken and Results:	No follow-up action is needed.	
Recommendations for Improvement:	Faculty consistently report and analyze assessment data each quarter and year. Sharing their effective practices with other faculty and the outcomes assessment committee would help streamline, evaluate, and better document assessment processes for all measures.	

Assessment Measure 2: Survey – Graduating Seniors		GOAL 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: 83% of students rated abilities as good or above (n=53) June 2024: 90% of students rated abilities as good or above (n=59) June 2025: 89% of students rated abilities as good or above (n=9) June 2026: 90% of students rated abilities as good or above (n=20)	
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.	

Assessment Measure 3: Survey – Industry Employer		GOAL MET
Type:	Indirect Measure	

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Date of Report: July 2026

*Previously PLO Number 8. The number was adjusted when original PLOs 7 (documents), 9 (multi-disciplinary skills), and 13 (risk management) were removed from the original required PLO assessment measures.

As prescribed in Section 8.5.1 and 9.4.1 of ACCE Document 103, Standards and Criteria for the Accreditation of Construction Education Programs

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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: 100% of employers rated abilities as good or above (n=21) June 2024: 89% of employers rated abilities as good or above (n=21) June 2026: 88% 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	
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, Spring 2024, Fall 2024, Spring 2026	
Results:	100% of students outperformed the national average on each exam (Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024, Spring 2026).	
Actions Taken:	None	
Recommendations for Improvement:	None	

Method of Assessment:

This assessment evaluates students' analysis of material, methods, and equipment using embedded questions in an exam and a standardized rubric.

Actions taken:

Direct Assessment Measure:

The direct assessment has not been changed. New faculty have taught the course and have noted that the course material prepares them well for the assessment and attainment of the learning outcome and that revisions are not necessary.

Discussion:

The assessment tool is still considered appropriate for this PLO. The assessment instrument is well structured and evaluates students' abilities to analyze materials, methods and equipment.

Recommendations for Improvement:

In Fall 2026, the outcomes assessment measure will move to CM 1114 as part of the semester-based curriculum transition. Current OAM faculty should collaborate with the CM 1114 team to establish effective methods for data collection, analysis, and reporting. Developing a clear rubric will help identify areas where students need additional support, allowing targeted improvements across the curriculum.

Additional Data for Outcomes Assessment Measures:

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Assessment Measure 1: Embedded Exam Questions with Rubric

Quarter	Number of CM students who completed the quiz/exam	Total number of CM students with 80% or more on the quiz/exam	Percent of students with 80% or more
Fall 2020	19	18	94.74%
Winter 2021	19	17	89.47%
Spring 2021	20	18	90.00%
Fall 2021	21	21	100.00%
Winter 2022	19	19	100.00%
Winter 2022	24	22	91.67%
Spring 2022	23	21	91.30%
Fall 2022	23	23	100.00%
Winter 2023	24	23	95.83%
Spring 2023	22	21	95.45%
Fall 2024	20	20	100%
Fall 2024	17	17	100%
Winter 2025	24	24	100%
Winter 2025	22	22	100%
Spring 2025	25	24	96%
Spring 2025	24	24	100%
Fall 2025	24	23	96%
Fall 2025	24	24	100%
Winter 2026	24	23	96%
Winter 2026	24	23	96%
Spring 2026	24	24	100%
Spring 2026	23	23	100%

Assessment Measure 2: Survey – Graduating Seniors

Rating	2020-2021	2023-2024	2024-2025	2025-2026
Poor	0	1	0	0
Fair	9	5	1	2
Good	17	21	2	8
Very Good	18	20	4	6
Excellent	9	12	2	4
Total Responses	53	59	9	20
Total - Good or Better	44	53	8	18
Percentage - Good or Better	83%	90%	89%	90%

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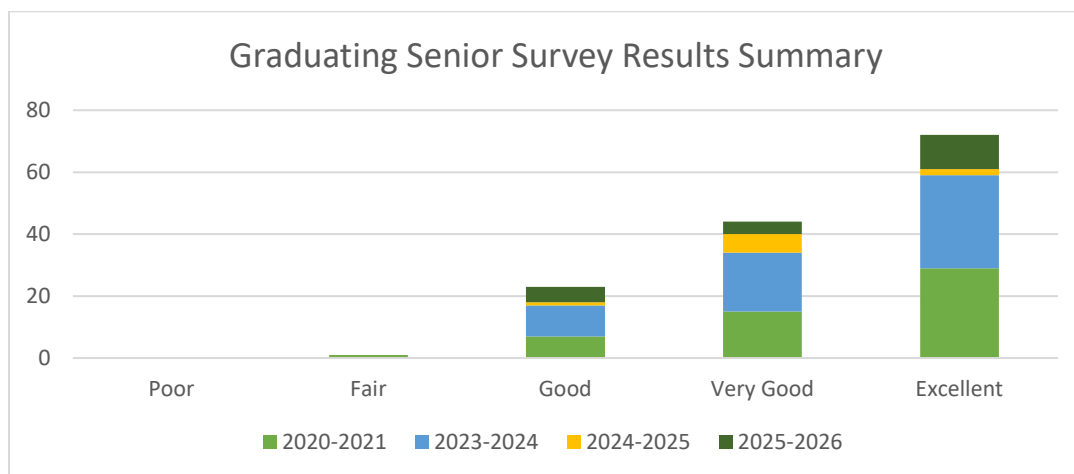
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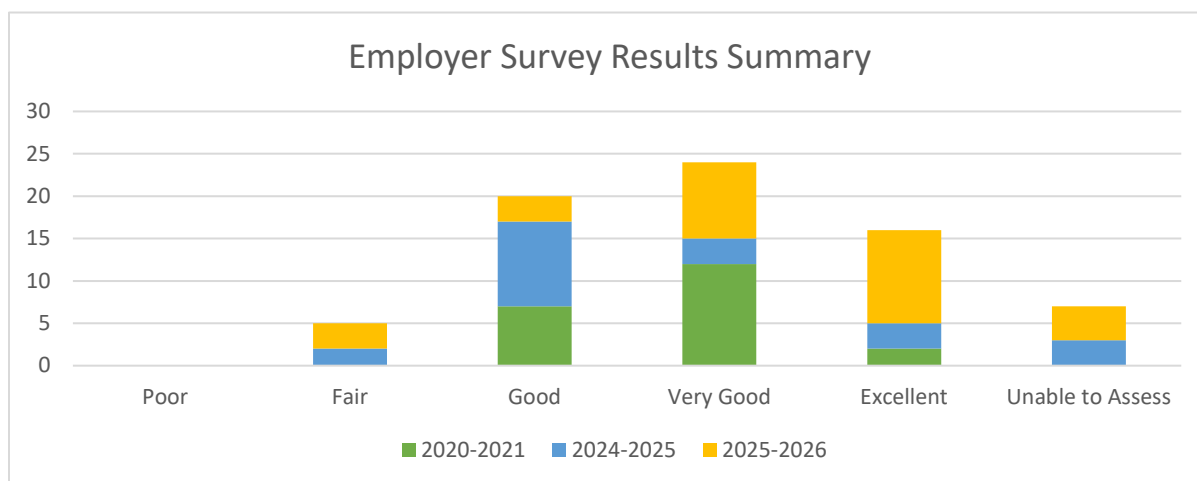
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Assessment Measure 3: Survey – Industry Employers

Rating	2020-2021	2024-2025	2025-2026
Poor	0	0	0
Fair	0	2	3
Good	7	10	3
Very Good	12	3	9
Excellent	2	3	11
Unable to Assess	0	3	4
Total Responses	21	21	30
Total - Good or Better	21	16	23
Percentage - Good or Better (excludes unable to assess responses)	100%	89%	88%



Assessment Measure 4: AIC Exam Results Summary:

Note: The AIC exam did not report PLO 7 results for Spring 2025 and Fall 2025.

AIC Exam Results - PLO No. 7

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	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025	Spring 2026
School Average	76%	76%	87%	79%	76%	77%	80%	0%	0%	87%
National Average	68%	69%	75%	69%	67%	69%	67%	0%	0%	71%

