

Outcomes Assessment

Student Learning Outcomes and Degree Program Objectives



CAL POLY

Construction Management

COLLEGE OF ARCHITECTURE
& ENVIRONMENTAL DESIGN

PLO# 12. Understand construction quality assurance and control.*

Assessment Measure Summary Results

Assessment Measure 1: Embedded Exam Questions		GOAL MET
Type:	Direct Measure	
Course & Assignment:	CM 413 (Jobsite Construction Management); embedded questions in exam	
Goal:	70% of students achieve 70% or better	
Date(s) of OAM reviews:	June 2024 (for AY 2023-2024) June 2025 (for AY 2024-2025) June 2026 (for AY 2025-2026)	
Results:	June 2024: 74% of students achieve 70% or better June 2025: 80% of students achieved 70% or better June 2026: 100% of students achieved 70% or better	
Revisions made to instrument:	None.	
Actions Taken and Results:	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.	
Recommendations for Improvement:	Utilize stand-alone quiz rather than embedded questions in exam to facilitate data collection, evaluation, and reporting. 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 3313 – Commercial 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 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: 88% of students rated abilities as good or above (n=52) June 2024: 97% of students rated abilities as good or above (n=58) June 2025: 100% of students rated abilities as good or above (n=9) June 2026: 100% 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).	

Outcomes Assessment Report

PLO 12: Quality

Date of Report: July 2026

**Previously PLO Number 15. 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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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: 90% of employers rated abilities as good or above (n=21) June 2024: 85% 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 2025, Fall 2025, 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 2025, Fall 2025, Spring 2026).	
Actions Taken:	None	
Recommendations for Improvement:	None	

Method of Assessment:

This assessment evaluates students' understanding of quality assurance and control. The assessment utilizes exam questions which were developed and validated by a team of faculty.

Actions taken:

Direct Assessment Measure:

The exam questions have 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.

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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 placement for this assessment could be in CM 3313 – Commercial Construction Management. Faculty are working to incorporate this assessment into the new course curriculum.

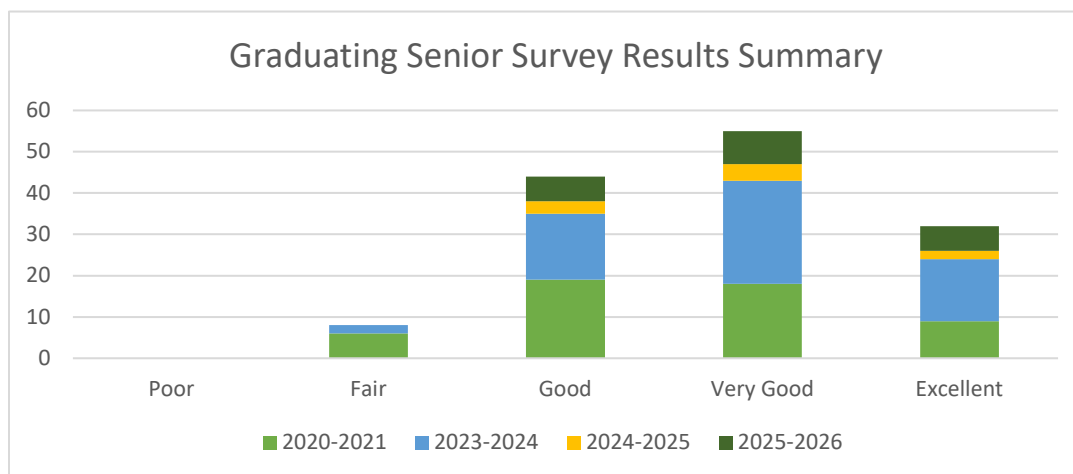
Additional Data for Outcomes Assessment Measures:

Assessment Measure 1: Embedded Questions in Exam

Quarter	Number of CM students who completed the quiz/exam	Total number of CM students with 70% or better on the quiz/exam	Percent of students with 70% or more
Summer 2023	37	27	72.97%
Fall 2023	20	15	75.00%
Spring 2024	25	19	76.00%
Fall 2024	27	19	70.37%
Winter 2025	15	15	100.00%
Winter 2025	26	20	76.92%
Spring 2025	27	22	81.48%
Winter 2026	24	24	100.00%

Assessment Measure 2: Survey – Graduating Seniors

Rating	2020-2021	2023-2024	2024-2025	2025-2026
Poor	0	0	0	0
Fair	6	2	0	0
Good	19	16	3	6
Very Good	18	25	4	8
Excellent	9	15	2	6
Total Responses	52	58	9	20
Total - Good or Better	46	56	9	20
Percentage - Good or Better	88%	97%	100%	100%



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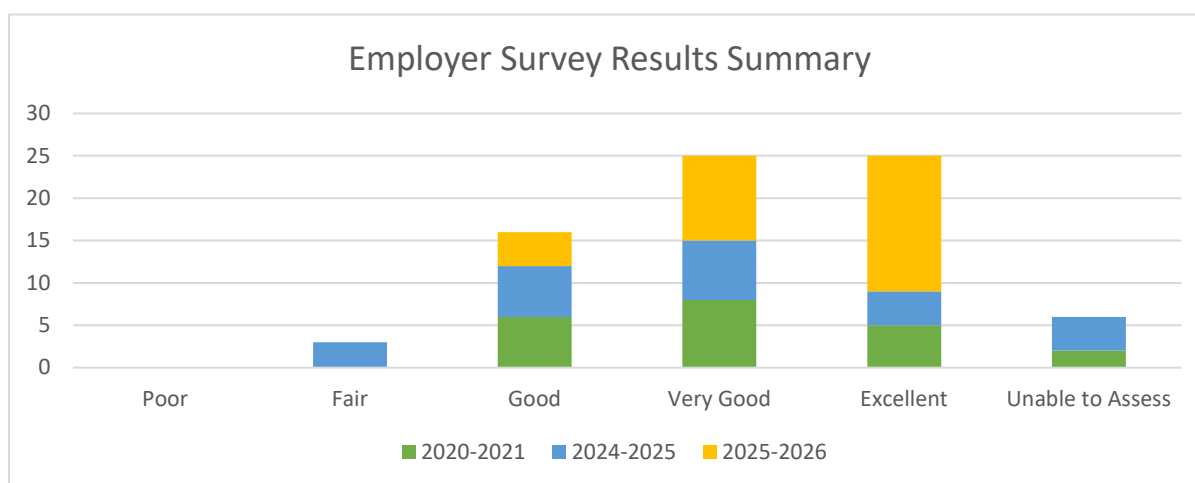
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Assessment Measure 3: Survey – Industry Employers

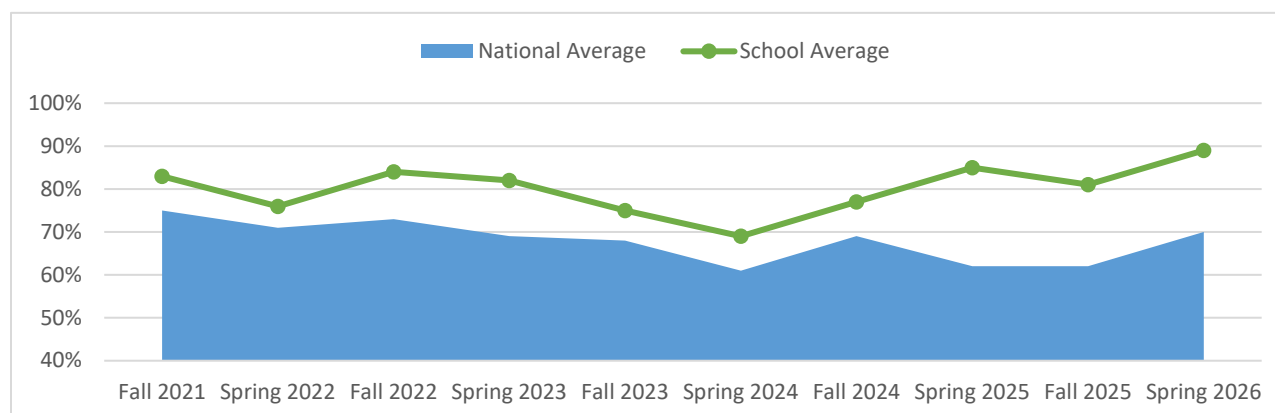
Rating	2020-2021	2024-2025	2025-2026
Poor	1	0	0
Fair	1	3	3
Good	6	11	5
Very Good	10	5	10
Excellent	2	1	8
Unable to Assess	1	1	4
Total Responses	21	21	30
Total - Good or Better	18	17	23
Percentage - Good or Better (excludes unable to assess responses)	90%	85%	88%



Assessment Measure 4: AIC Exam Results Summary:

AIC Exam Results - PLO No.12

	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025	Spring 2026
School Average	83%	76%	84%	82%	75%	69%	77%	85%	81%	89%
National Average	75%	71%	73%	69%	68%	61%	69%	62%	62%	70%



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