

Outcomes Assessment

Student Learning Outcomes and Degree Program Objectives



CAL POLY

Construction Management

COLLEGE OF ARCHITECTURE
& ENVIRONMENTAL DESIGN

PLO# 16. Understand the basic principles of structural behavior.*

Assessment Measure Summary Results

Assessment Measure 1: Final Exam Scores		GOAL NOT MET
Type:	Direct Measure	
Course & Assignment:	80% of students score 70% or better on final exam	
Goal:	77% of students received a score of 70% or better in AY2023-2024	
Date(s) of OAM reviews:	June 2024 (AY 2023-2024) June 2025 (AY 2024-2025) June 2026 (AY 2025-2026)	
Results:	77% of students achieved 80% or higher in AY 2020-2021 68% of students achieved 80% or higher in AY 2021-2022 69% of students achieved 80% or higher in AY 2022-2023	
Revisions made to instrument:	None.	
Actions Taken and Results:	None.	
Recommendations for Improvement:	The measurement tool is not housed in the CM curriculum and, until recently, has not been taught by CM faculty, so the CM department has had little say in the development and implementation of the survey instrument. As we switch to semester conversion, the assessment measure will be housed in CM 2113 - Soil Analysis and Construction of Foundations & Temporary Structures.	

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: 100% of students rated abilities as good or above (n=52) June 2024: 97% of students rated abilities as good or above (n=59) 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).	
Recommendations for Improvement:	Work with ASCM student club to increase response rates.	

Assessment Measure 3: Survey – Industry Employer		GOAL MET
Type:	Indirect Measure	
Goal:	50% of employers rate students' abilities as good and above.	

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PLO 16: Structures

Date of Report: July 2026

**Previously PLO Number 19. 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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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: 95% of employers rated abilities as good or above (n=20) June 2024: 89% of employers rated abilities as good or above (n=21) June 2026: 93% 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' understanding of structural behavior using questions developed and approved by a team of architectural engineering faculty.

Actions taken:

Direct Assessment Measure:

The exam is currently designed and administered within an architectural engineering course, with limited input from construction management faculty. It appears to be more rigorous than necessary, potentially assessing a higher level of Bloom's taxonomy than "understand."

Discussion:

Students consistently demonstrate adequate performance in the direct assessment of this outcome, displaying a baseline understanding of the required skills even if we are not meeting our goal. 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. Currently, the measurement tool is not integrated into the Construction Management (CM) curriculum, and CM faculty have had limited involvement in its development and administration. To strengthen assessment alignment and faculty

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ownership, it is recommended that the CM department actively participate in revising and updating the survey instrument to better reflect course content and learning objectives. With the upcoming semester conversion and the assessment measure being incorporated into CM 2113 – Soil Analysis and Construction of Foundations & Temporary Structures, faculty should collaborate to ensure the tool is relevant, valid, and effectively measures student learning. Establishing a regular review process for the assessment instrument will further promote continuous improvement and ensure alignment with departmental goals.

Additional Data for Outcomes Assessment Measures:

Assessment Measure 1: Final 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
AY 2023-2024	155	119	76.77%
Fall 2024	29	17	58.62%
Winter 2025	60	51	85.00%
Spring 2025	41	20	48.78%
Fall 2025	15	5	33.33%
Fall 2025	13	7	53.85%
Winter 2026	7	6	85.71%
Winter 2026	14	13	92.86%
Winter 2026	9	7	77.78%
Winter 2026	14	11	78.57%
Winter 2026	16	11	68.75%
Winter 2026	14	10	71.43%

Assessment Measure 2: Survey – Graduating Seniors

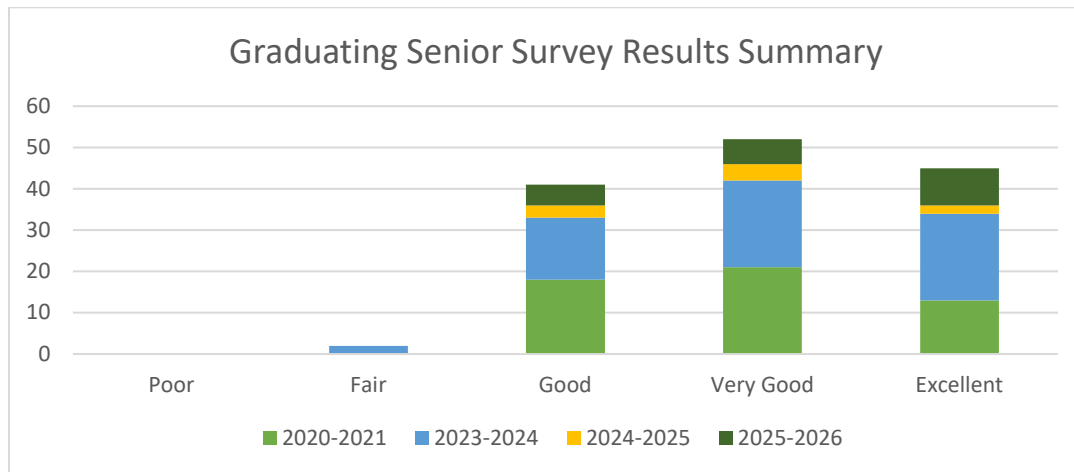
Rating	2020-2021	2023-2024	2024-2025	2025-2026
Poor	0	0	0	0
Fair	0	2	0	0
Good	18	15	3	5
Very Good	21	21	4	6
Excellent	13	21	2	9
Total Responses	52	59	9	20
Total - Good or Better	52	57	9	20
Percentage - Good or Better	100%	97%	100%	100%

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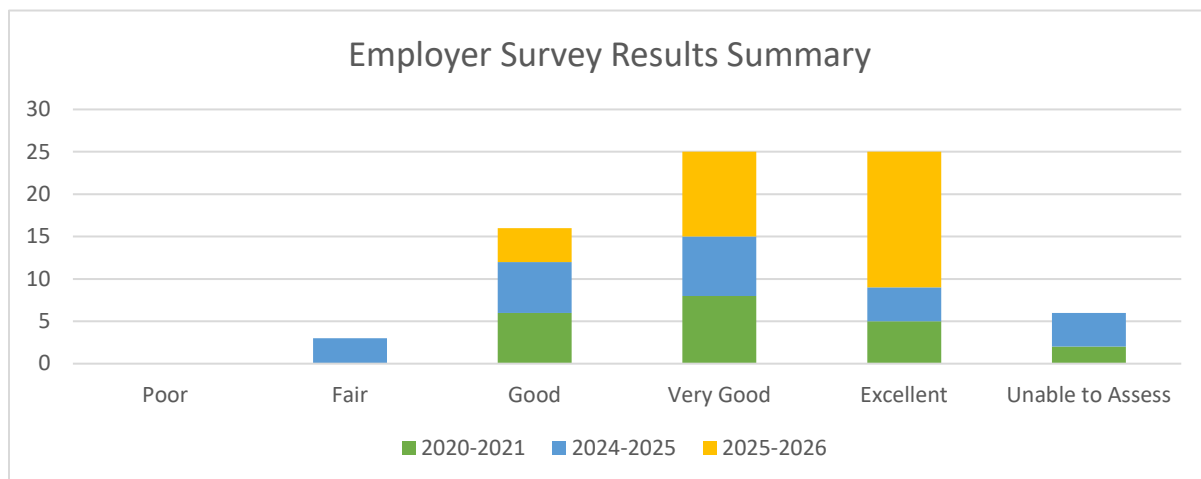


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Assessment Measure 3: Survey – Industry Employers

Rating	2020-2021	2024-2025	2025-2026
Poor	0	0	0
Fair	1	2	2
Good	8	9	3
Very Good	10	6	6
Excellent	0	2	16
Unable to Assess	1	2	3
Total Responses	20	21	30
Total - Good or Better	18	17	25
Percentage - Good or Better (excludes unable to assess responses)	95%	89%	93%



Assessment Measure 4: AIC Exam Results Summary:

Note: The AIC exam did not report results for PLO 16 in Spring 2025 and Fall 2025.

AIC Exam Results - PLO No.16

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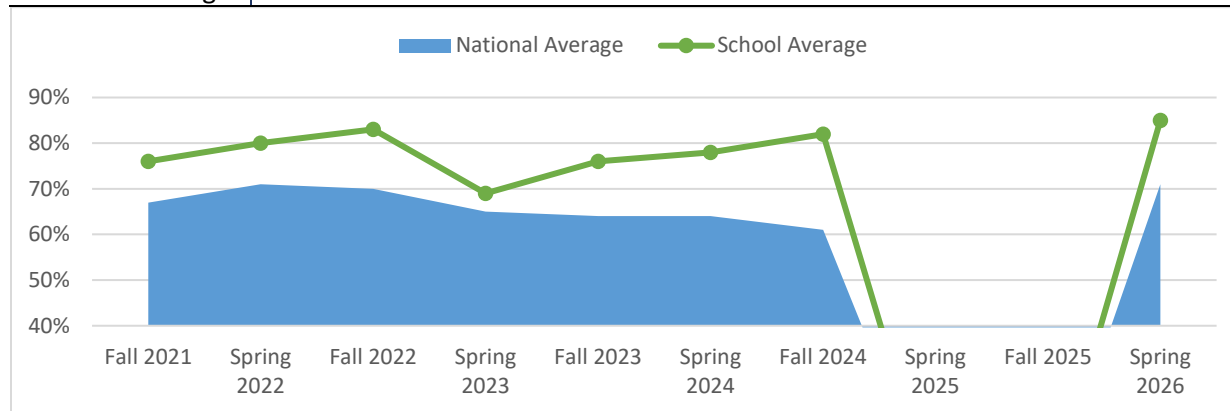


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	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025	Spring 2026
School Average	76%	80%	83%	69%	76%	78%	82%	0%	0%	85%
National Average	67%	71%	70%	65%	64%	64%	61%	0%	0%	71%



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