

**Construction Management
Department of Professional Management**

Student Outcome & Program Assessment

Annual Assessment Report

Fall 2024 – Spring 2025

Prepared by

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Spring 2025

INTRODUCTION

This is the twenty-third year for our assessment process. There are three separate and distinct components: Assessment Quality Improvement Plan, Assessment Implementation Plan, and a Strategic Plan. Below you will find an analysis of our overall Program Assessment and Student Learning Outcomes.

The CM Program's Quality Improvement Plan and Strategic Plan are coordinated. The major part of both plans focus on providing a quality CM Program and assessing Program SLOs, ACCE SLOs, and Course SLOs. In addition, goals and objectives are identified in the Strategic Plan to grow and enhance the CM Program.

The Quality Improvement Plan includes a mapping document showing where each ACCE SLO is introduced ("I", reinforced (R), and directly assessed (DA). Course Learning Outcomes are identified for each course and identified in each course syllabi.

A process has been developed to evaluate course learning outcomes and student learning outcomes. Faculty are required to complete the course evaluation and collect the supporting data, analyze the data, and present the results to the CM faculty. This process allows the program to evaluate the course content as well as how it supports the ACCE SLOs.

There is an electronic folders containing summarized data for each of the 17 ACCE SLOs. Faculty are required to provide documentation for all direct and indirect assessment measures for each of the ACCE SLOs that are supported by each course they teach. If new courses are added or course learning change, the responsible faculty will update the course syllabus.

OVERVIEW OF THE ASSESSMENT PROCESS

The Assessment plan has four levels of assessment:

- 1. Evaluate the Program Student Learning Outcomes.**
- 2. Evaluate ACCE's 17 Student Learning Outcome (SLO's) and evaluate course learning outcome for each CM course.**
- 3. Develop, maintain, and evaluate Course Learning Outcomes for each CM Course.**
- 4. Maintain ACCE Accreditation**

Course Learning Outcomes are identified for each course associated with the appropriate ACCE SLO. The Course Learning Outcomes are evaluated each time the course is taught. This process provides the foundation for both the Level I and Level II assessment of student learning. (See ACCE SLO /Curriculum Spreadsheet)

- Level I – Assessment of ACCE Student Learning Outcomes.
Direct measures of ACCE student learning outcomes include the AC Exam, Capstone Experience, Course Comprehensive Exams, Course Semester or Major Projects, Technology Proficiency Exams, and the Internship Presentation.

- Level II – Program Assessment
Assessment measures include Program Learning Outcomes, Maintaining ACCE Accreditation, Enrollment, Senior Exit Survey, Internship Employer Evaluation, Graduate Placement, Alumni and Employer Surveys, and input from the Advisory Board.

An Implementation Plan has been developed to keep the process on a schedule.

SUMMARY OF PROGRAM OUTCOME ASSESSMENT

Goal #1: Implement an Academic Quality Improvement Process for the CM Program

1. Evaluate the Program Student Learning Outcomes.

1.1 Students will demonstrate basic knowledge of, and be able to apply, the concepts of estimating, construction planning, scheduling, project controls, construction finance, cost control, risk management, and safety as they relate to being a field or project engineer, superintendent, or project manager. (ACCE SLO’s 3, 4, 5, 11, 12,13, 14)

1.2 Student will apply appropriate knowledge of mathematics, science, business fundamentals, and electronic-based technology to various construction management processes, design theory, surveying techniques, mechanical/electrical concepts, and analysis of construction systems. (ACCE SLO’s 8, 9, 16, 17)

1.3 Students will be able to analyze construction materials, methods, construction systems, equipment, design theory, quality assurance, sustainable/lean construction concepts, and have basic knowledge of their application to the construction process. (ACCE SLO’s 7, 12, 15)

1.4 Analyze construction documents for planning and management of construction processes and understand the legal implications of project delivery methods, contracts, common, and regulatory law needed to manage a construction project. (ACCE SLO’s 10, 13, 14)

1.5 Students will develop ethical principles and be able to communicate clearly and effectively as individuals and as a member of a multi-disciplinary team. (ACCE SLO’s 1, 2, 6)

Assessment Measures:	Assessment Results	Date Assessed
CM 492 Capstone Final Submittal (safety plan, estimate, schedule, analysis of documents and analysis of materials and methods)	Spring 2025 21 of 21 students (100%) of students scored 75 % or higher on	5/2025

<ul style="list-style-type: none"> • <i>75 % of the students will receive a 75% on the final submittal.</i> 	the semester assignments. The class average score was 85.345%	
<p>CM 492 Capstone Team Evaluation</p> <ul style="list-style-type: none"> • <i>75 % of the team evaluations will demonstrate that the team members worked as an effective team.</i> 	Spring 2025 21 of 21 (100%) student team evaluations indicated the students functioned very well working as teams. Everyone received 100% as an effective team member, except for one student who received 85%.	5/2025
<p>CM 492 Capstone Final Presentation</p> <ul style="list-style-type: none"> • <i>75 % of the students will receive a 75% on the professional presentation of their final submittal.</i> 	Spring 2024 10/21 (47.6%) scored 75% or higher. Our face-to face students presented in person, and our online students presented via Zoom. The presentation scores declined this year. An industry panel judges these presentations and score them. Faculty need to reinforce that practice is required for these presentations. Also, faculty will review presentation assignments throughout the curriculum to ensure other courses implement public speaking. The class average was 73.81%.	5/2025
<p>Internship Employer Evaluation</p> <ul style="list-style-type: none"> • <i>Students will receive 3/5 or higher on all items on the Employer survey that apply to their internship.</i> 	Fall 2024 The overall average employer evaluation based on all criteria area for all Interns was 4.04 out of a 1-5 Likert Scale. This employer evaluation review ability to work as a team member, effective communication skills, estimating, scheduling, layout, etc.. which covers the ACCE SLO's.	5/2025
<p>AIC Level I Certification Exam</p> <ul style="list-style-type: none"> • <i>The CM Program will meet or exceed the national average in 50% of the Student Learning</i> 	Spring & Fall 2025 Spring 2025 AC Exam results indicated that MSUM School Average exceeded that national average for 8 of	5/2025 & 10/2025

<p><i>Outcomes of the exam mapped to the Program SLO's.</i></p>	<p>10 (80%) SLO's. MSUM had the same average scored as the national average for SLO16 – Structural Behavior; and (1) – SLO #17 HVAC, Electrical, and Plumbing fall below the national average. AIC only reports on SLO's #6, 7, 10, 11, 12, 13, 14, 15, 16, and 17.</p> <p>In the Fall of 2025, we had (1) candidate retake the exam. This candidate exceeded the national average in 7 of the 10 areas.</p> <p>We exceeded our benchmark of scoring higher in at least 50% of the SLO's identified on the AC exam. We have discussed the AC exam results among the faculty and with our industry advisory board. Unanimously it is agreed that this is a good external assessment.</p>	
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Evaluation of results and define action item(s) if necessary.

Fall 2024 – Spring 2025

An analysis of the assessment measures shows that the following measure were met:

- Capstone Final Submittals
- Capstone Team Evaluations
- Employer Internship Evaluations
- AIC Level I Exam – Exceeding National Average

The following measures were not met:

- Capstone Final Presentations

AC Exam scores increased significantly this year, when compared to the two previous years. Overall, the student body appears to be more engaged in the classroom and among extracurricular learning activities as well.

Historically, our students have met the benchmark for Capstone Final Presentations. We will continue to monitor this to see if it becomes a trend or if this is unique to this year.

Follow-up on Action Items.

We will continue to monitor our student assessment and how well our students perform on their final Capstone projects, the AC Exam, and internships.

With discussion among faculty and our industry advisory board, we have decided to change our Capstone project for next academic year. Next academic year we will no longer participate in The Pursuit, but will have a local industry led project. We are working with Mortenson for the next Capstone offering in spring 2026. They will be providing a project they have currently completed that provides some complexities and thoughts on planning and scheduling. Students will be required to complete a RFQ response and RFP response, presenting twice to Mortenson and the faculty. Our intention is to provide a more complex project for the Capstone students.

2. Evaluate the ACCE 17 Student Learning Outcomes (SLO's)

2.1 Set up a process to evaluate for each ACCE SLO.

2.2 Evaluate ACCE SLO's every academic year.

Assessment Measures:	Assessment Results	Date Assessed
<ul style="list-style-type: none"> <i>100% of the ACCE SLO are monitored and revised as needed</i> 	<p>All 17 SLO's for AY24-25 were evaluated in the fall of 2025. We evaluated all SLO's in the early fall to allow time for the faculty to enter their spring 2025 data and make any changes within their courses for academic year 2025/2026.</p> <p>For the Direct Assessment, the following SLO's did not meet the benchmark (70% or higher):</p> <ul style="list-style-type: none"> SLO12 – Quality Assurance & Control – 68% SLO16 – Structural Behavior – 65% SLO17 – HVAC, Electrical, & Plumbing – 47% 	<p>09/2025</p>

	<p>We utilize the AC exam results for SLO 6, 7, 10, 11, 12, 14, 15, 16, & 17.</p> <p>Although we did not meet our own benchmark of 70%, we did have a higher score or the same score as the national average in all areas except for SLO#17 – HVAC, Electrical, & Plumbing.</p> <p>The following discussion and decision was made at the CM faculty meeting reviewing all SLO’s:</p> <ul style="list-style-type: none"> • Faculty have discussed this year’s assessment scores. Many of the SLO scores increased this year when compared to the past two years. Some of the homework in courses have been restructured this past academic year, putting weekly assignments into a quiz format. Faculty found this very beneficial. • For the past two years, our students have not performed well on SLO #17. The faculty of that course is going to review the course and also put assignments within D2L as a quiz format to ensure student integrity. 	
<p>Evaluation of results and define action item(s) if necessary</p> <p>The SLO evaluations are completed annually.</p> <p>Data for each SLO was collected and electronically recorded on the “SLO Assessment Results 2022-2028” form which is stored on the departmental share drive. Any action suggestions are</p>		

recorded on the data form based evaluation from CM faculty meeting in the fall of 2025. The CM faculty met in September 2025 to evaluate all 17 SLO's for AY24-25.

Follow-up on Action Items.

The CM faculty will continue to meet each academic year to evaluate every SLO and to ensure that all SLO's are introduced, reinforced, and assessed throughout the entire CM curriculum and feed into the CLO's.

3. Develop, maintain and evaluate course learning outcomes for each CM Course.

- 3.1 All CM course syllabi are developed in a consistent format.
- 3.2 Course Learning Outcomes are evaluated for every CM course.

Assessment Measures:	Assessment Results	Date Assessed
<ul style="list-style-type: none"> • <i>100% of the course syllabi will be developed in a consistent format (See format in the Assessment Plan.).</i> 	<p>Currently all course syllabi are developed in a consistent format.</p>	<p>5/2025</p>
<ul style="list-style-type: none"> • <i>Each course syllabus will include course learning outcomes with associated benchmarks and assessment measures.</i> 	<p>Currently all existing course syllabi have course learning outcomes with associated benchmarks and assessment measures.</p>	<p>05/2025</p>

Evaluation of results and define action item(s) if necessary.

Course syllabi are to be updated each semester the course is taught. Course Learning Outcomes are updated if the course content is changed.

All ACCE SLO's and CLO's are identified in each syllabi.

Each individual faculty maintain course learning outcome data for each course they teach.

Follow-up on Action Items.

For next assessment cycle, CM faculty to review the CM Quality Improvement Plan per ACCE Document 103, Section 9.1 – Continuous Improvement. Currently, the majority of the CLO's align directly with the SLO's, creating assessment of the same information. Faculty will review AY2025-26 the overall Quality Improvement Plan and make changes necessary to provide an updated assessment process.

4. Maintain ACCE Accreditation		
<i>4.1 The CM Program maintains accreditation.</i>		
Assessment Measures:	Assessment Results	Date Assessed
<ul style="list-style-type: none"> The CM Program will be re-accredited each six-year accreditation cycle. 	<p>The program was re-accredited in February 2022. Our ACCE site visit was October 2021. The third-year report was submitted Fall 2024. During the February 2025 Midyear Conference, the Accreditation Committee for the American Council for Construction Education (ACCE) reviewed the Third Year Progress Report. The report as submitted was accepted and approved by the Committee. Our next accreditation visit is Fall 2027.</p> <p>New ACCE form A-17 was implemented Fall 2024. All data was entered and submitted to ACCE to stay within compliance.</p>	5/2025
<p>Evaluation of results and define action item(s) if necessary.</p> <p>ACCE accreditation first and third year reports are available for review upon request.</p> <p>Form A-17 (SLO evaluation and overall program evaluation data) was submitted to ACCE in the Fall of 2024 to stay within compliance.</p> <p>The CM program will continue to perform annual assessment of all 17 SLO's.</p> <p>Next accreditation visit will be Fall 2027.</p>		
<p>Follow-up on Action Items.</p> <p>Continue to have CM faculty attend the ACCE annual meetings to stay up-to-date on ACCE standards and any changes that may be occurring with the accreditation process.</p>		

GOAL #2: Increase the number of Construction Management majors.

<p>2.1 Increase CM program enrollment at MSUM. 2.2 Reach and maintain a stable CM program enrollment corresponding to three full-time CM faculty members.</p>		
Assessment Measures:	Assessment Results	Date Assessed
<ul style="list-style-type: none"> Increase enrollment over previous fall enrollment. Goal is to reach 120 students total. 	CM Program Enrollment Fall 21 = 94 CM Program Enrollment Fall 22 = 86 CM Program Enrollment Fall 23 = 81 CM Program Enrollment Fall 24 = 92 CM Program Enrollment Fall 25 = CM Program Enrollment Fall 26 =	5/2025
<p>Evaluation of results and define action item(s) if necessary.</p> <p>Although we have not met our goal of 120 students, the CM program enrollment increased this year. CM faculty will continue to present to high-schools and two year programs.</p>		
<p><u>Goal 2.1: CM Enrollment Increase</u></p> <p>5/25/23:</p> <p>All three CM faculty are diligent to go recruiting at two-year transfer schools and regional high schools. We will continue to place an effort on recruiting and modify our approach if necessary. We have gone from a traditional presentation at the high-school level and started doing a short project-based presentation, so students have a hands-on activity related to construction management (negotiation activity or building a tower).</p> <p>5/2024:</p> <p>CM faculty continue to recruit at high-schools and two year institutions. We attend career fairs at high schools and at regional events:</p> <ul style="list-style-type: none"> • Big Lake High School Career Fair • Detroit Lakes High School Career Fair • Barnesville High School Career Fair • Morris Career Fair 		

- Wayzata High School Career Fair
- Health, Tech, and Trades Career Fair (Fargo Dome for local and surrounding 9th graders)

To get further increase in enrollment, we will need to do some additional focused programmatic marketing.

Goal 2.2: Reach & Maintain a Stable CM Program Enrollment

5/25/23:

We would like to see a steady increase of CM students and sustain approximately 120-130 students per academic year. Universities nationwide are experiencing significant enrollment decline for a few reasons: 1.) the enrollment cliff which is the dramatic drop in the college-age population. 2.) currently less high-school students are choosing to attend a four-year degree program. MSUM is not immune to this and as a university has seen a significant decline in enrollment. Although CM has not been gaining at the numbers we are hoping for, our enrollment has not declined at the same rate of the university as a whole. Our faculty put much effort on recruiting new students, but also retaining our current students. We will continue with these efforts to try to increase our enrollment.

As an initiative to increase enrollments, we started offering our degree program online in the fall 2020, asynchronous. This online program is identical to our face-to-face program, but is designed for a non-traditional student who has construction experience or a two-year construction related degree. This allows for students who are place-bound and/or working full-time in the industry to work towards a bachelor’s degree in CM.

5/2025:

This past academic year, we saw an increase of 11 students into our CM program. We will continue our recruiting and marketing efforts.

Follow-up on Action Items.

5/2025:

We will continue with our recruiting efforts. We will also meet with marketing and admissions to see if there are any additional efforts we can work on to increase our enrollment.

GOAL #3: Develop Annual CM Soft Money Budget and Develop/Implement a Fund Raising Plan.

<p>3.1 Prepare a CM supplemental soft money budget annually and present to the IAB.</p> <p>3.2 Develop/Implement a CM Fundraising/Scholarship Plan</p>		
Assessment Measures:	Assessment Results	Date Assessed
<ul style="list-style-type: none"> CM Advisory Board will review and comment on the CM Program soft money proposed budget. 	<p>Rachel Axness and IAB member, Scott Weicht presented an update of CM Discretionary Accounts. The account balance for CM Discretionary is: \$60,000</p> <p>Our goal is to keep these discretionary funds greater than \$20,000.</p>	5/2025
<p>Evaluation of results and define action item(s) if necessary.</p> <p>6/2024: Working in conjunction with the foundation, we had a successful Giving Hearts Day in October 2023. This raised our funds significantly. We also had an employer donate \$3,000 to our program which went into our discretionary account. We will continue to work with the foundation and our IAB on this initiative.</p> <p>6/2025: Once again we had a successful Giving Day. We will continue to work with the foundation and our IAB on this initiative.</p>		
<p>Follow-up on Action Items.</p> <p>6/2024:</p> <p>The CM faculty continue to monitor the soft money account balances and report back to the Advisory Board.</p> <p>6/2025:</p> <p>The CM faculty will utilize these funds to enhance learning opportunities for our students. We will also continue to work with foundation to continue the success of Giving Day and other donations.</p>		

GOAL #4: Develop activities which lead to greater construction industry interaction with CM students.

<p>3.1 CM faculty and students will work with the members and leadership of the IAB to facilitate industry interaction.</p>
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3.2 CM faculty will incorporate construction industry field trips and/or speakers in every course.		
Assessment Measures:	Assessment Results	Date Assessed
<ul style="list-style-type: none"> <i>The IAB, CM faculty, and student groups will complete one joint project/activity each semester.</i> 	<p>CM student group and IAB will publish one joint newsletter in the spring of 2024 which is issued to students and alumni. It can be seen here: https://issuu.com/msumoorhead/docs/constructionmgmt-spring2024_newsletter-v3</p> <p>Spring 2025 Newsletter: https://issuu.com/msumoorhead/docs/construction_mgmt_newletter_spring2025</p>	<p>5/17/2024</p> <p>5/2025</p>
<p><i>Record industry interaction on “Industry Interaction Spreadsheet” and reference course number and industry person.</i></p>	<p>Industry interaction log is maintained on an annual basis is available to review anytime a request is made.</p>	<p>5/2025</p>
<p>Evaluation of results and define action item(s) if necessary.</p> <p>5/2025:</p> <p>We continue to receive excellent industry support throughout our program. Their support spans from monetary donations to classroom presentations. Industry interaction this past academic year include:</p> <ul style="list-style-type: none"> • Site tours • Guest lecturers on topical content • Preconstruction presentation judges • Capstone judges • Site Safety Walks on local jobsites for CM365 – Construction Safety • 3rd Annual Career Fair – Fall 2024 		
<p>Follow-up on Action Items:</p> <p>5/2025:</p> <p>Continue providing numerous interaction opportunities for students with our local industry.</p>		

Overall Program Evaluation

- **Internship Evaluation**

Overall, the employers rated the interns above average in each of the twenty areas assessed. The average score for the twenty areas was 4.04 on a scale of 1-5 with 5 being the highest.

Evaluation of results and define action item(s) if necessary.

Making a statement that not all areas may be applicable to each intern was incorporated. This year those items were not measured and taken out of the average score.

- **Senior Exit Survey**

Overall, the results indicate that the students are pleased with the experience that they have had in the CM program and at MSUM. Responses indicated that the students felt they were well prepared to start their careers in construction. Data results can be seen in the SLO Indirect Assessment Scores below.

Evaluation of results and define action item(s) if necessary.

Overall, results are positive and indicate a high level of satisfaction with the program and faculty at MSUM.

CM Alumni Survey

An Alumni Survey was conducted spring 2025. We received 37 responses from alumni who graduated within the past 5 years.

Evaluation of results and define action item(s) if necessary.

An Alumni Survey was conducted in spring 2025. We received 36 responses. The alumni evaluated how well they felt they were prepared by MSUM's Construction Management program in the SLO's for their current career. It was a Likert scale 1-5, with 5 being the highest.

SLO #1 – Create written communications – 4.44

SLO #2 – Create oral presentations – 4.17

SLO #3 – Create construction project safety plan – 3.73

SLO #4 – Create project cost estimate – 4.32

SLO #5 – Create project schedule – 4.11

SLO #6 – Ethical principles – 4.32

SLO #7 – Methods, materials, and equipment – 4.24
SLO #8 – Electronic-based technology to manage construction process – 4.35
SLO #9 – Survey techniques for construction layout -3.70
SLO #10 – Project delivery - 4.32
SLO #11 – Construction cost accounting & cost control – 3.84
SLO #12 – Quality assurance & control – 4.30
SLO #13 - Project control processes – 4.24
SLO #14 – Legal implications – 4.00
SLO #15 – Principles of sustainable construction – 3.70
SLO #16 – Principles of structural behavior – 3.95
SLO #17 – HVAC, electrical, plumbing – 3.54
Rate your professional growth and progress since employment with your firm – 4.49
How well did the academic program at MSUM prepare you for your position – 4.51
The next CM Alumni Survey will be sent Spring 2028, gathering the data every 3 years.

CM Employer Survey

The CM Employer Survey was conducted spring 2025. Four responses were received.

Evaluation of results and define action item(s) if necessary.

Spring 2025: The CM Employer Survey was conducted spring 2025. We received (4) responses, which is not a strong representation of our program, but better than what we received in 2021. We asked the employers to rate our student’s knowledge on the 17 SLO’s based on a 1-5 Likert Scale. The average number for each is listed below. At the end we provided space for open feedback on how the CM faculty can better prepare our students for industry. Overall, positive feedback was provided. Employers indicated strengths such as: communication, documentation, and overall management skills.

SLO #1 – Create written communications – 4.25

SLO #2 – Create oral presentations – 4.00

SLO #3 – Create construction project safety plan – 4.25

SLO #4 – Create project cost estimate – 4.00

SLO #5 – Create project schedule – 5.00

SLO #6 – Ethical principles – 4.50

SLO #7 – Methods, materials, and equipment – 4.50

SLO #8 – Electronic-based technology to manage construction process – 4.50

SLO #9 – Survey techniques for construction layout – 4.25

SLO #10 – Project delivery – 3.75

SLO #11 – Construction cost accounting & cost control – 4.00

SLO #12 – Quality assurance & control – 3.75

SLO #13 - Project control processes – 4.25

SLO #14 – Legal implications – 4.25

SLO #15 – Principles of sustainable construction – 3.75

SLO #16 – Principles of structural behavior – 4.00

SLO #17 – HVAC, electrical, plumbing – 3.75

Rate the employee’s professional growth and progress since employment with your firm – 4.75

How well did the academic program at MSUM prepare the employee for their position? – 4.75

The next Employer Survey will be distributed Spring 2028.

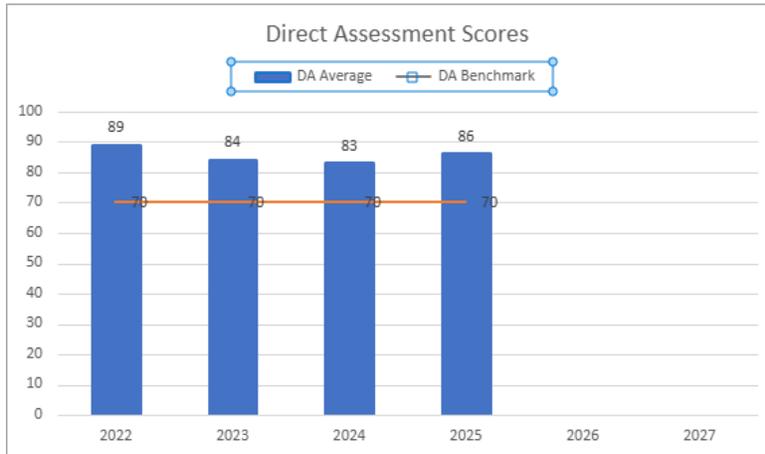
Spring 2021: We received only one response, which is not a strong representativeness of our program. Although the feedback was good, we need a stronger response rate to ensure we have an evaluation of numerous alumni. We will try to get a stronger response rate in our Spring 2025 surveys.

AY 2024-2025 ACCE SLO ASSESSMENT

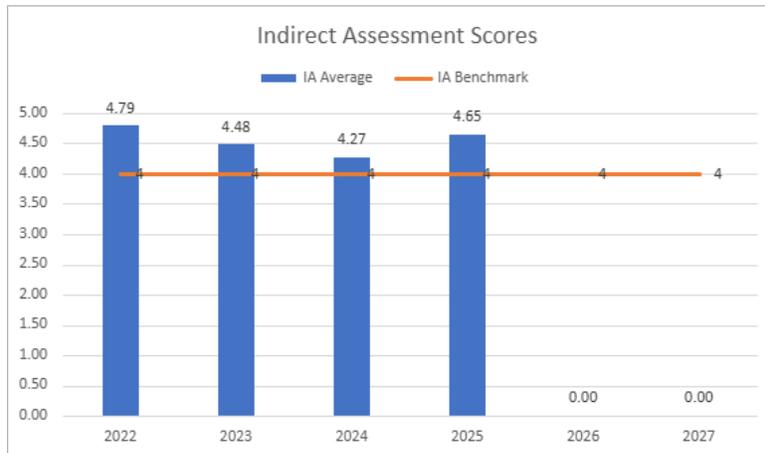
See “SLO Assessment Results 2022-2028” in the Professional Management Share Drive folder for a full analysis. This provides all data related to each SLO.

SLO #1 – Create written communications appropriate to the construction discipline

DA: CM460 – Schedule & Quality Subcontractor Letter



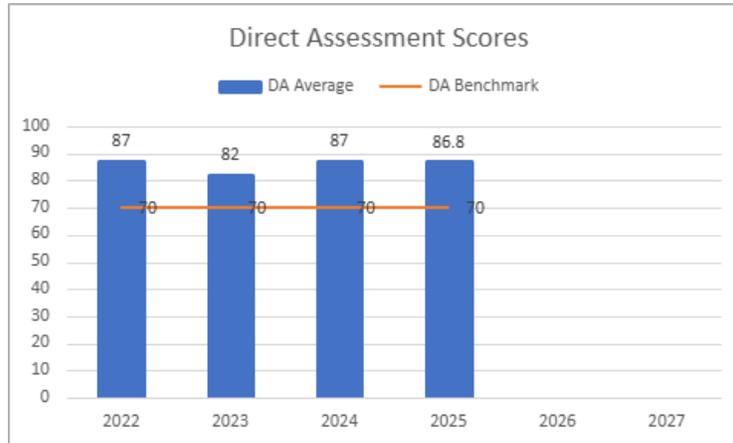
IA: Senior Exit Interview



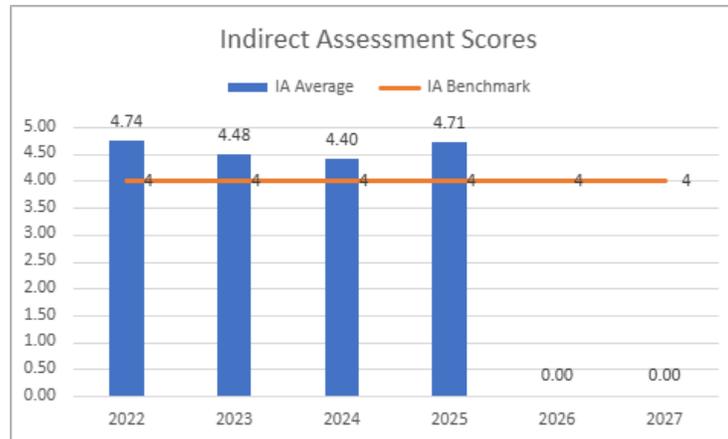
Analysis: Will continue to monitor. Students did progressively well compared to past cohorts.

SLO #2 – Oral Presentations

DA: CM469 Internship Presentation



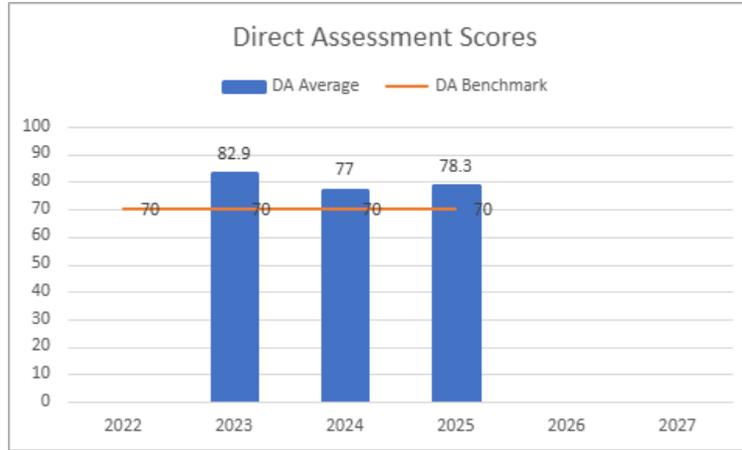
IA: Senior Exit Survey



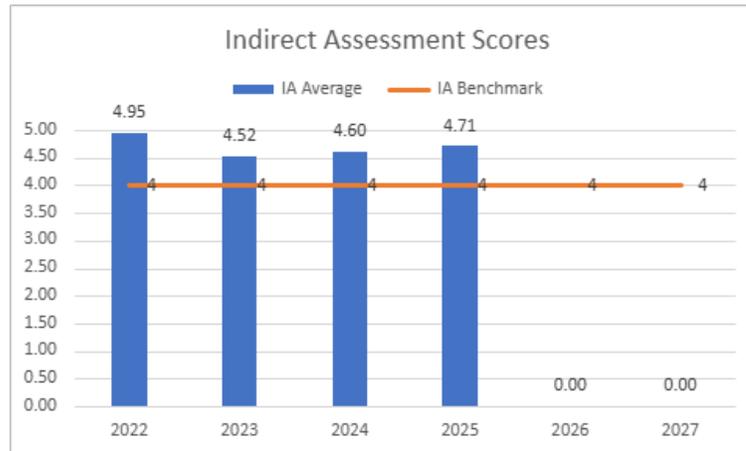
Analysis: Will continue to monitor. Students did progressively well compared to past cohorts.

SLO #3 – Create a Construction Safety Plan

DA: CM365 Construction Safety – Each student is responsible to create a construction project safety plan.



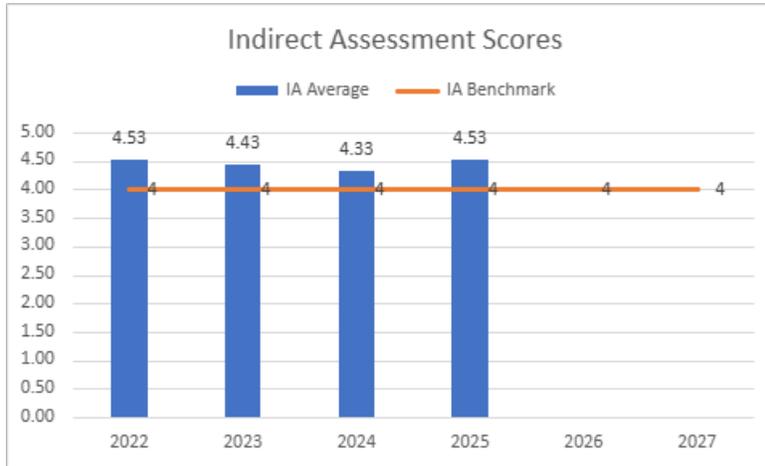
IA: Senior Exit Survey



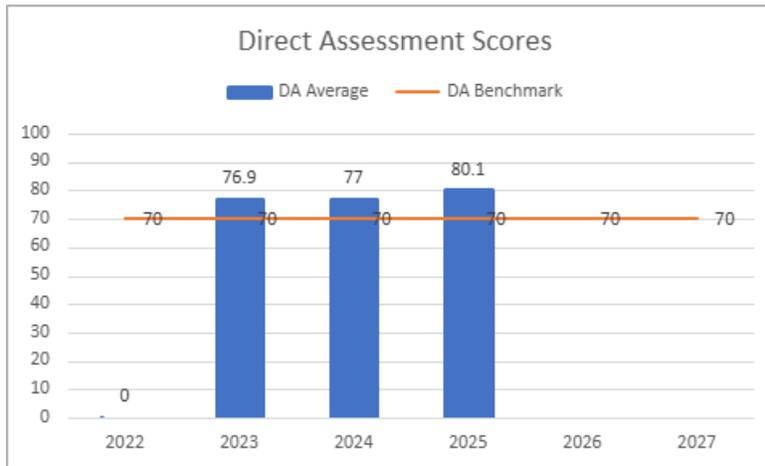
Analysis: Safety Plans were better than last year. Next academic year, faculty will have a multi-step assignment with an outline for the safety plan and then the use of A.I. to help develop final safety plan.

SLO #4 – Create Construction Project Cost Estimate

DA: CM335 Semester Project – Construction Estimate



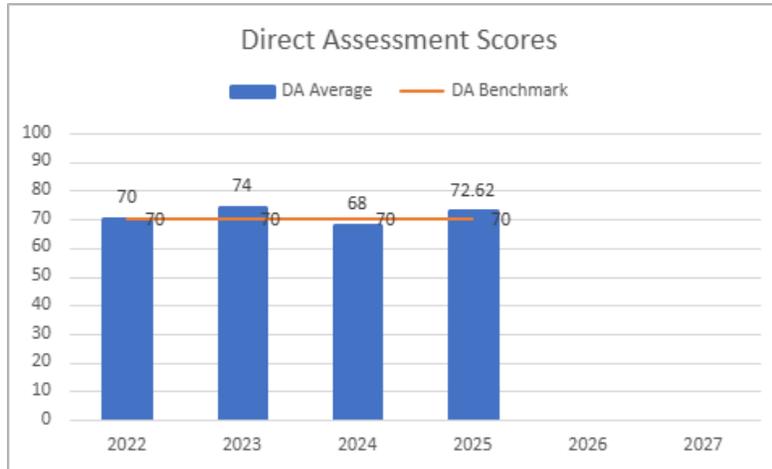
IA: Senior Exit Survey



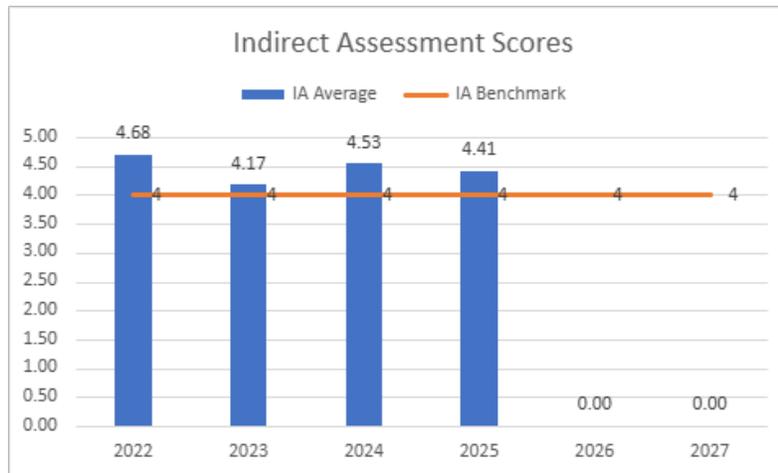
Analysis: Will continue to monitor.

SLO #5 – Create Construction Project Schedules

DA: CM340 Semester Project – Construction Schedule



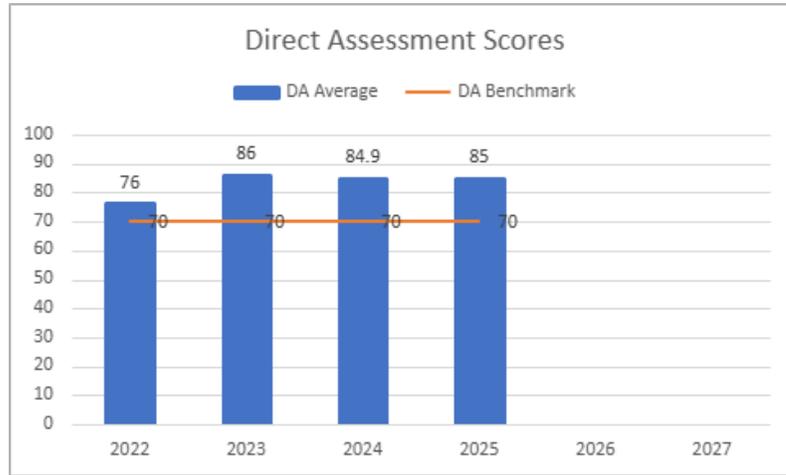
IA: Senior Exit Survey



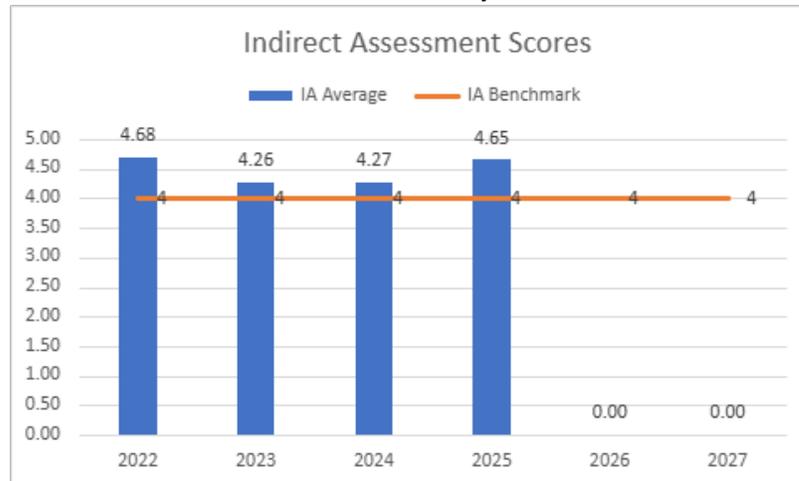
Analysis: Will continue to monitor. Faculty will review the grading rubric for clarity.

SLO #6 – Analyze Professional Decisions Based on Ethical Principles

DA: AC Exam



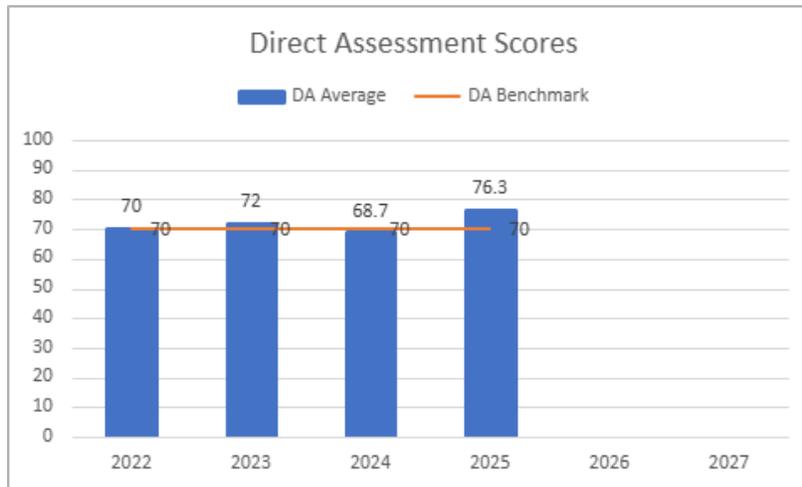
IA: Senior Exit Survey



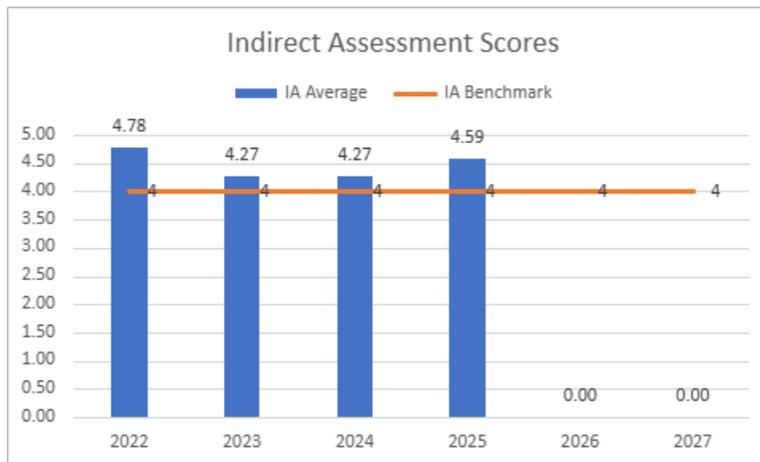
Analysis: Will continue to monitor.

SLO #7 – Construction Documents for Planning and Management of Construction Processes

DA: AC Exam



IA: Senior Exit Survey

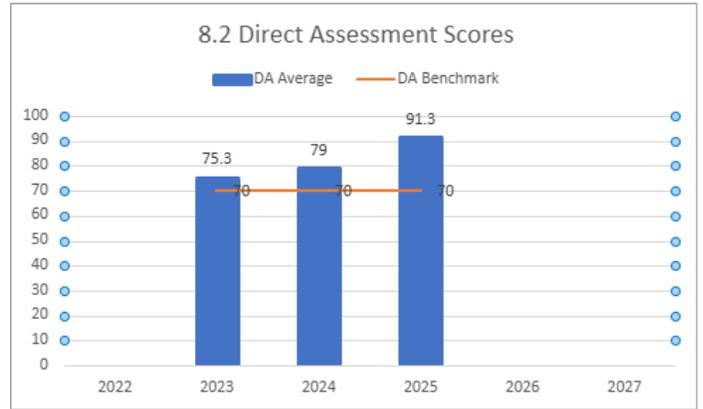
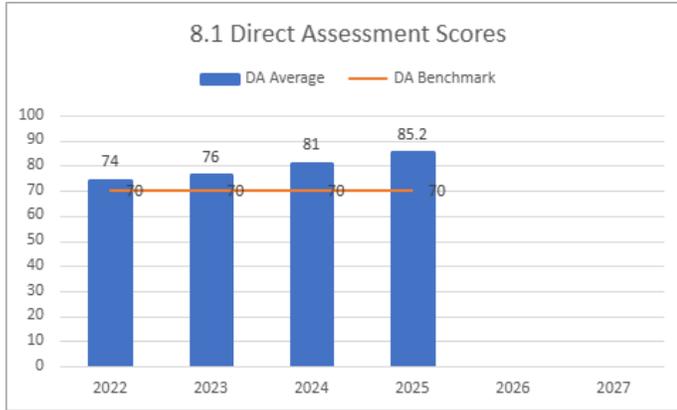


Analysis: Higher than national average. Will continue to monitor.

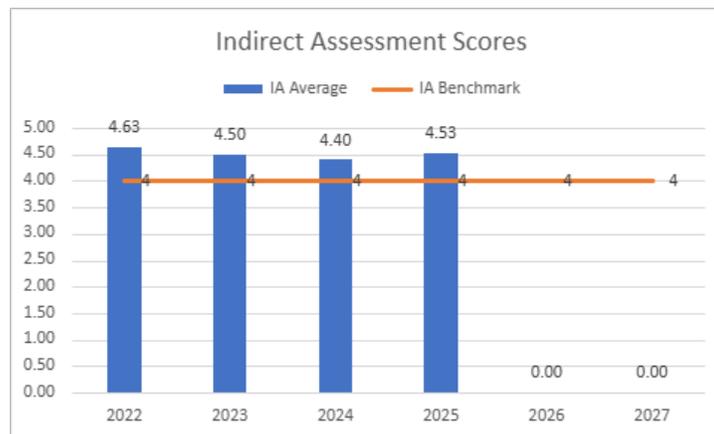
SLO #8 – Electronic-Based Technology

DA 8.1 – CM340 Proficiency Exam

DA 8.2 – CM335 Proficiency Exam



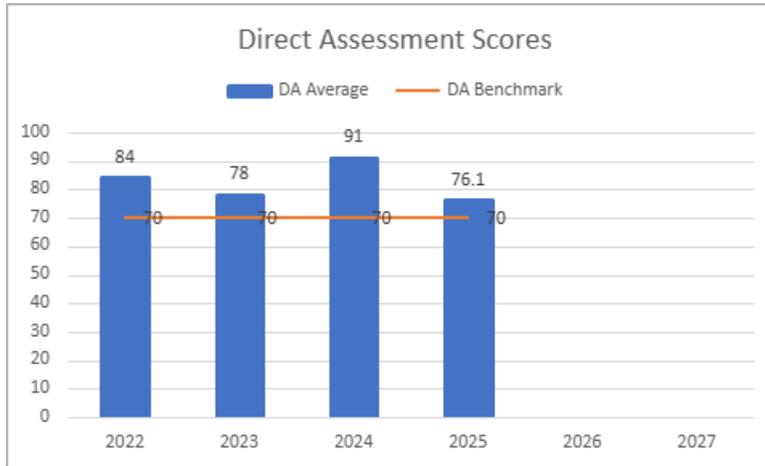
IA: Senior Exit Survey



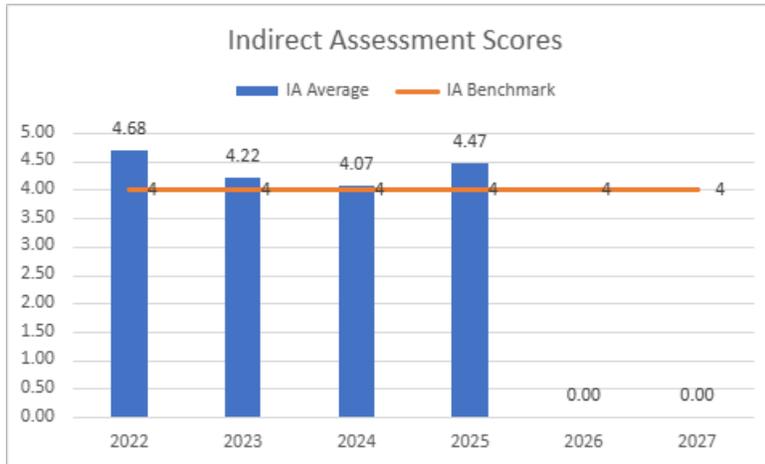
Analysis: 8.1 Continue to monitor. 8.2 Students performed well. Continue to monitor.

SLO#9 – Apply basic surveying techniques for construction layout and control

DA: CM200 - Surveying Comprehensive Exam



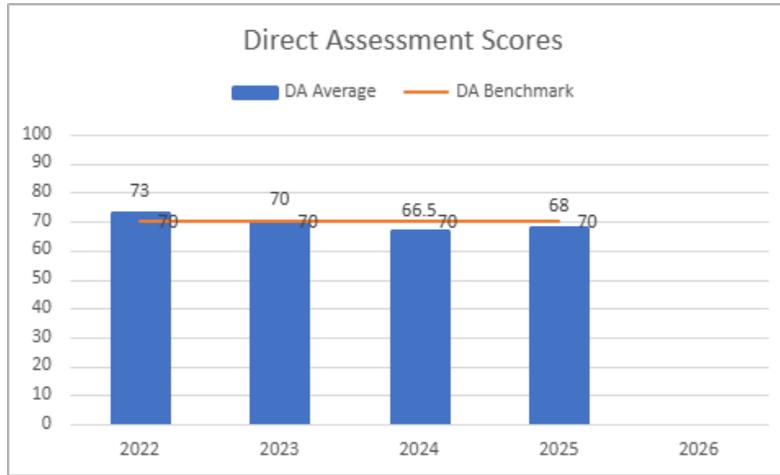
IA: Senior Exit Survey



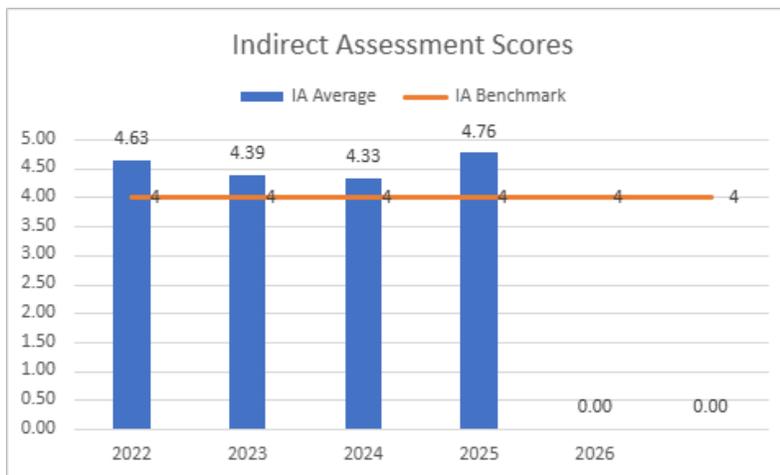
Analysis: Students overall performed well on Surveying Lab Final.

SLO#10 – Project Delivery

DA: AC Exam



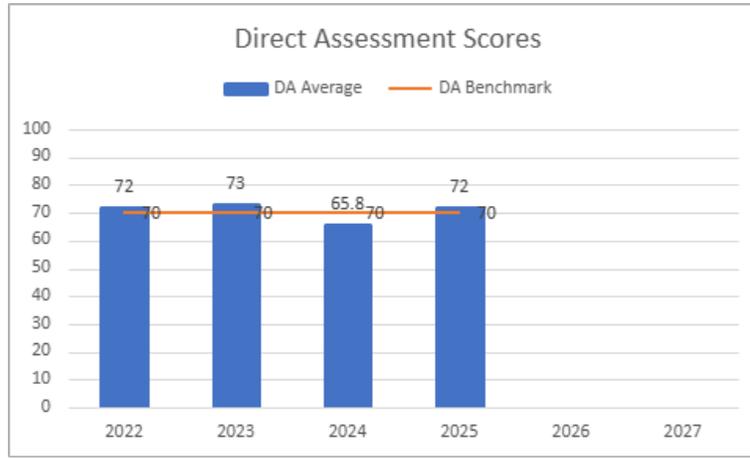
IA: Senior Exit Interview



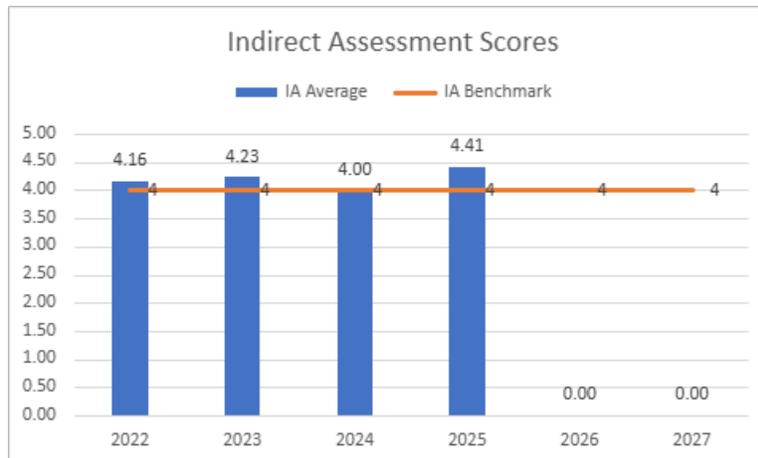
Analysis: Touched on briefly in CM230, 335, 340 and more significantly in CM445 & CM460. Faculty will discuss in further content within upper level courses.

SLO#11 – Understand Construction Accounting and Cost Control

DA: AC Exam



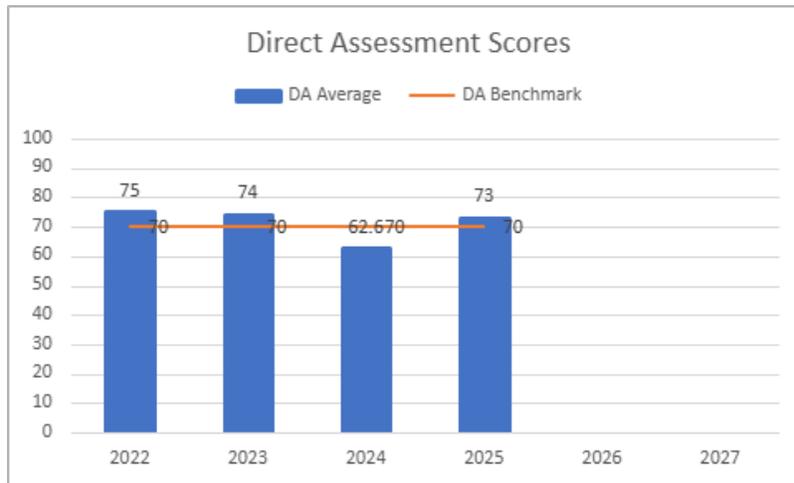
IA: Senior Exit Interview



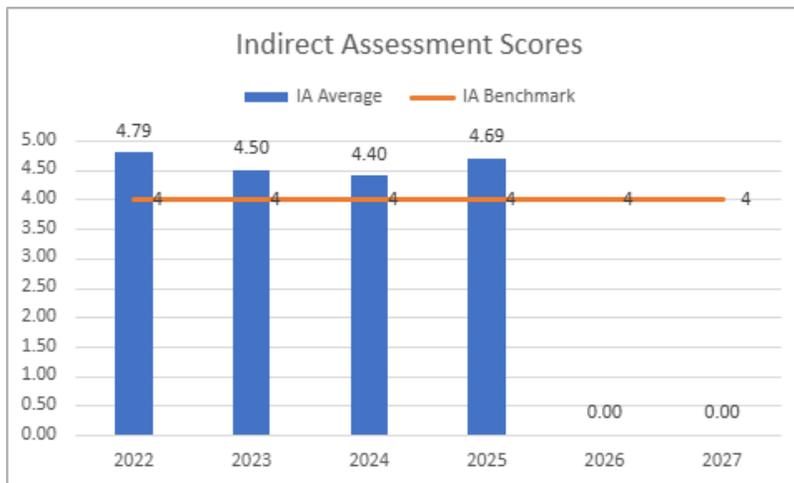
Analysis: Restructured homework assignments to be more uniform, having students perform weekly assignments within D2L under the Quiz format. Faculty found this very beneficial. Continue to monitor.

SLO#12 – Quality Assurance & Control

DA: AC Exam



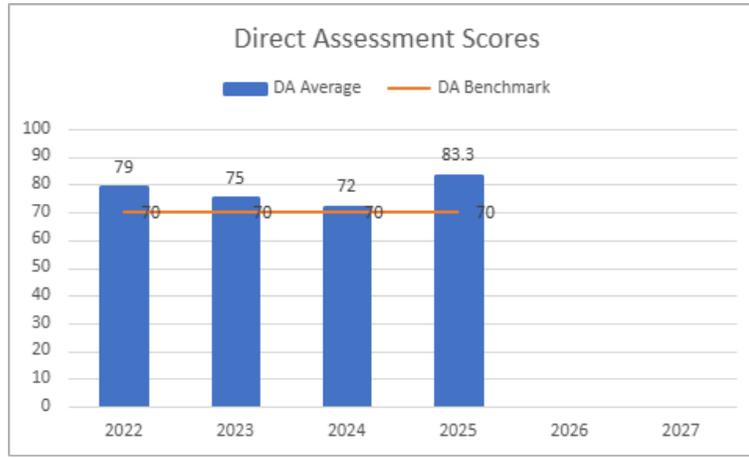
IA: Senior Exit Interview



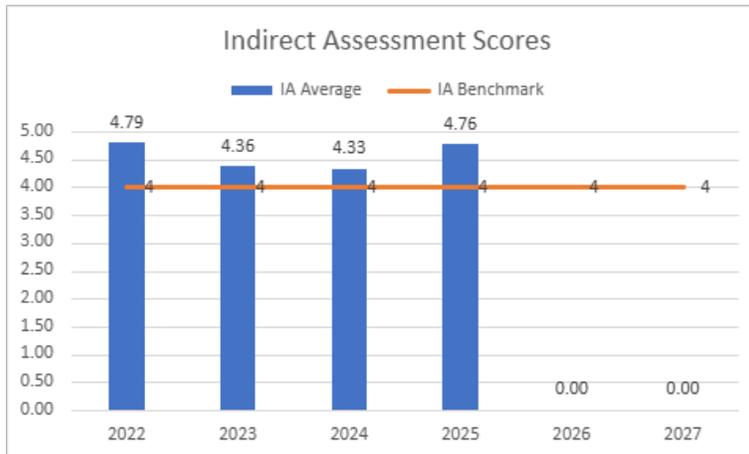
Analysis: MSUM is 4 points higher than the national average. Will review and continue to monitor.

SLO#13 – Project Control

DA: AC Exam



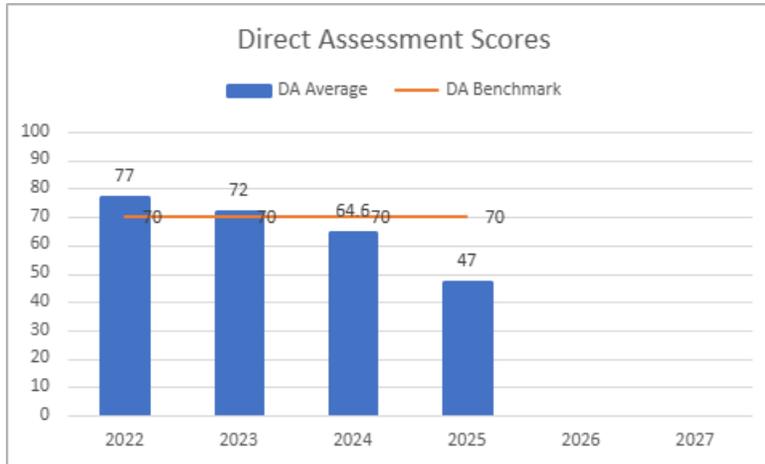
IA: Senior Exit Interview.



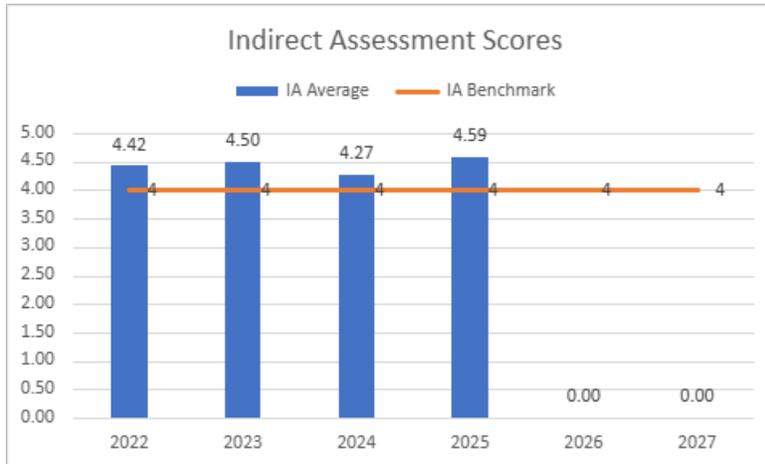
Analysis: Continue to monitor.

SLO#14 – Understand the legal implications of contracts

DA: AC Exam



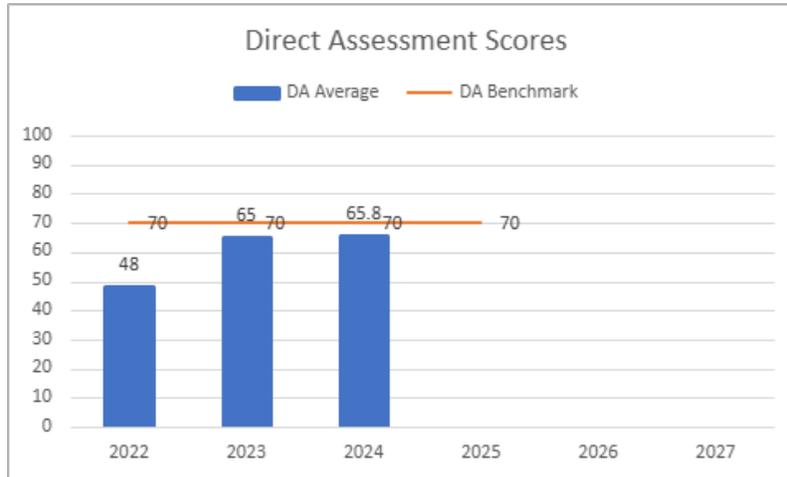
IA: Senior Exit Interview



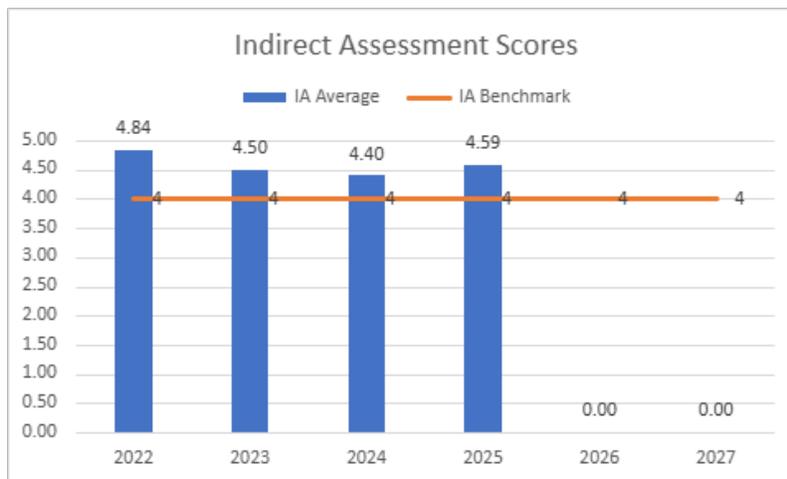
Analysis: Continue to monitor.

SLO#15 – Understand the Basic Principles of Sustainable Construction

DA: AC Exam



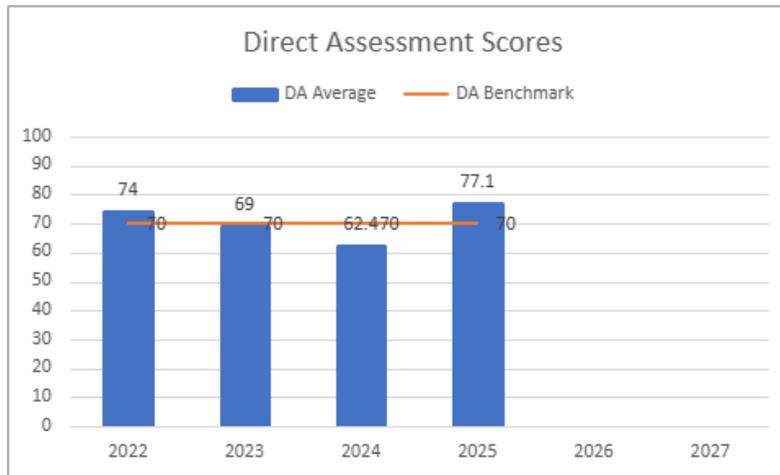
IA: Senior Exit Interview



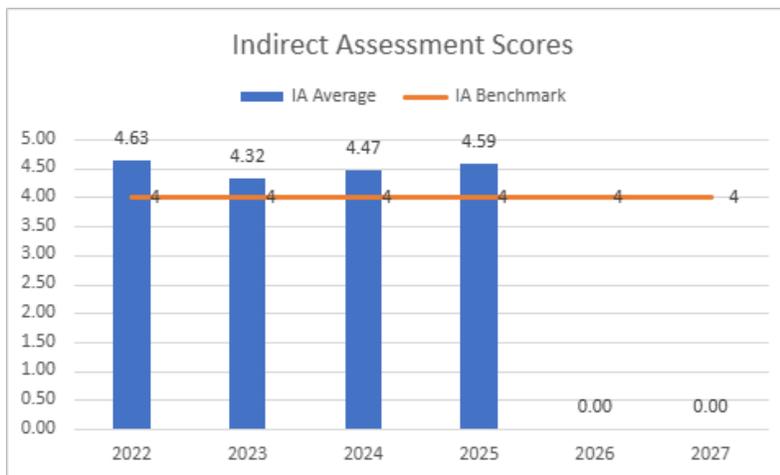
Analysis: Textbook was updated and new videos were made for learning content. Continue to monitor.

SLO#16 – Understand the basic principles of structural behavior

DA: AC Exam



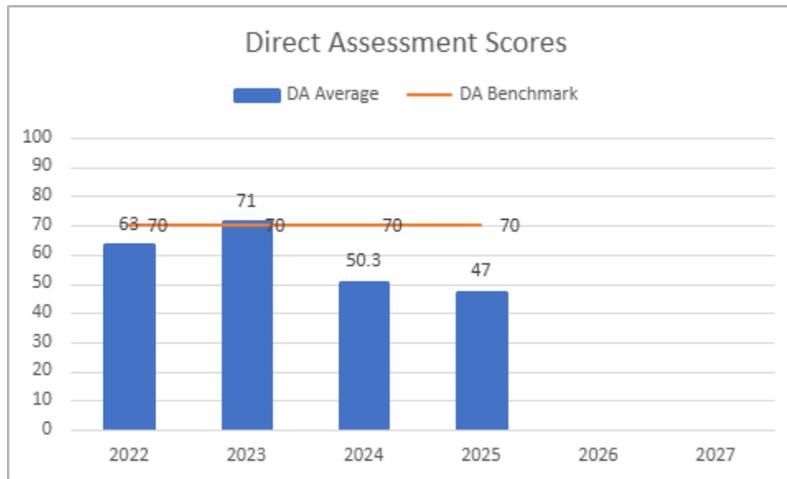
IA: Senior Exit Interview



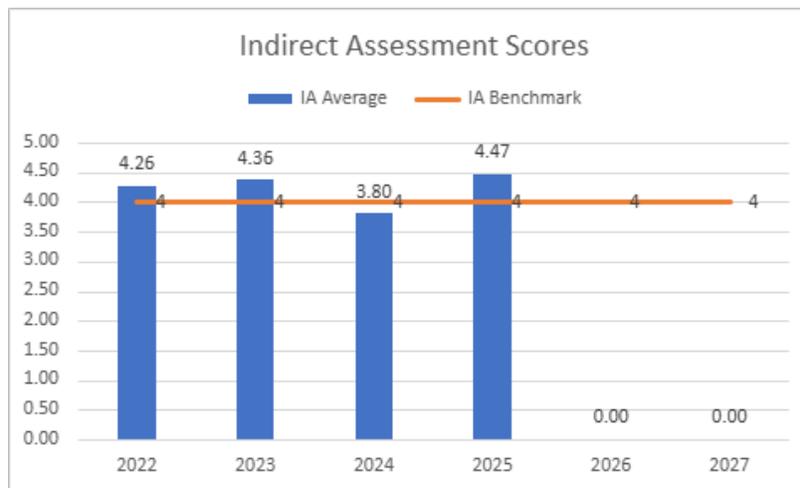
Analysis: MSUM has the same score as the national average. Continue to monitor.

SLO#17 – Understand the basic principles of mechanical, electrical and plumbing systems

DA: AC Exam



IA: Senior Exit Interview



Analysis: Faculty will review to put the assignments within D2L as a quiz format as they did in CM350
- Structures to ensure that homework does not get passed along from year to year between students. Faculty may review course for another textbook.

CONCLUSION OF CM ASSESSMENT PLAN

ACCE has developed A-17 form for each program to complete SLO analysis and overall program analysis. We will transfer our assessment data to complete the A-17 form and keep compliance with ACCE standards.

ACCE has 17 student learning outcome standards that our program assesses annually. Assessment instruments were revised spring 2022 (after our last accreditation visit) to allow easy visual from year-to-year assessment. The assessment process will be monitored and revisions will be made when results indicate our goals in the Strategic Plan have not been reached.

Overall, we continue to deliver a strong and rigorous program serving the tri-state area and now providing an online program to reach a larger, more diverse audience. We will closely monitor our classes to ensure regardless of delivery method that our students are learning the outcomes of each course.