

2022 ANNUAL ACADEMIC ASSESSMENT REPORT FORM
(Due October 15 to the dean)**PROGRAM SECTION (Due to the dean on October 15)****Submission date:** 10/7/2022**Submitted by:** Joel Condon, Chair - Construction Management, jcondon1@alaska.edu**Program(s) covered in this report:** Construction Management BS

If you selected "Other" above, please identify. (100 characters or less)

College: Community and Technical College**Campuses where the program(s) is delivered:** ☒ Anchorage ☐ KOD ☐ KPC ☐ MSC ☐ PWSC**Specialized accrediting agency (if applicable):** American Council for Construction Education**If explanation is necessary, such as only some of the certificates and degrees are covered by the specialized accreditation, briefly describe:****INSTITUTIONAL STUDENT LEARNING CORE COMPETENCIES**

In 2020, UAA launched a consensus-based, deliberative process to identify the key skillsets that help students achieve academic and post-graduation success. After a year-long process that included students, faculty, staff, administrators, alumni, and employers, the UAA community identified four core competencies at the heart of a quality UAA education. Students develop mastery of these competencies through curricular (e.g., courses), co-curricular (e.g., internships, conferences), and extra-curricular (e.g., student clubs) learning experiences.

After the stakeholder-based process in AY20, UAA is phasing in the integration of the core competencies into ongoing processes, including program student learning outcomes assessment. Personal, Professional, and Community Responsibility (PPCR) was integrated into the AY21 Annual Academic Assessment Report. The AY22 Annual Academic Assessment Report now also integrates Effective Communication.

Question #1 below is designed to engage program faculty in thinking about how they can or already do promote student learning in these two core competencies.

1. **A. *Personal, Professional, and Community Responsibility: The knowledge and skills necessary to promote personal flourishing, professional excellence, and community engagement.***

- **If last year you provided your program's current or planned example of an intentionally designed course, assignment, or activity that develops and showcases the student learning in this core competency, please discuss that implementation and any observations you have regarding how well it is working. (500 characters or less)**

The CM internship continues to provide students with the opportunity to develop their personal career aspirations through employment with industry professionals. It is an opportunity to apply classroom learning to the professional environment, cultivating the skills necessary to function effectively on the job, and requiring engagement with the broader community of material suppliers, subcontractors, and clients.

- **If last year you *did not* identify a current or planned example of an intentionally designed course, assignment, or activity that provides students the opportunity to develop and showcase this core competency, please identify one now. (500 characters or less)**

B. *Effective Communication: The knowledge and skills necessary to engage in effective communication in diverse contexts and formats.*

- **What would you hope a student would say if asked where in your program or support service they had the opportunity to develop proficiency in this core competency? (500 characters or less)**

The CM internship presented an opportunity to interact with diverse members of the professional community, from subcontractors to vendors to clients. They each require different vocabularies and modes of communication. Formats vary, from written responses to Requests for Information to in-person meetings with clients. The content of communications are significantly different between these diverse individuals, requiring a broad range of communication skills to effectively communicate.

- **Provide your program's current or planned example(s) of an intentionally designed course, assignment, or activity that showcases the student learning in this core competency. (500 characters or less)**

CM A422 is writing-intensive and requires the development of an undergraduate research project. Students must demonstrate effective written communication skill, the ability to access written material from a variety of sources, and outreach capabilities to communicate with specialists in the chosen area of interest. Students engage in the pursuit of topics that they find personally compelling and interact with individual specialists who are making significant contributions to society.

PROGRAM STUDENT LEARNING OUTCOMES

2. Please list the Program Student Learning Outcomes your program assessed in AY22. For each outcome, indicate one of the following: Exceeded faculty expectations, Met faculty expectations, or Did not meet faculty expectations.

Example: Communicate effectively in a variety of contexts and formats – Exceeded faculty expectations.

Create written communications appropriate to the construction discipline - Exceeded faculty expectations.

Create oral presentations appropriate to the construction discipline - Exceeded faculty expectations.

Analyze professional decisions based on ethical principles - Exceeded faculty expectations.

Apply electronic-based technology to manage the construction process - Met faculty expectations.

Apply basic surveying techniques for construction layout and control - Met faculty expectations.

Understand the basic principles of sustainable construction - Exceeded faculty expectations.

Understand the basic principles of structural behavior - Met faculty expectations.

Understand the basic principles of mechanical, electrical and piping systems - Met faculty expectations.

3. Describe your assessment process in AY22 for these Program Student Learning Outcomes, including the collection of data, analysis of data, and faculty (and other, e.g., advisory board) conversations around the findings. (750 characters or less)

The CM assessment process identifies courses that contain content that addresses program student learning outcomes. Specific assessment measures such as assignments, tests, quizzes, or questions are identified by the course instructor as relevant to the student learning outcome. The specific assessment measures are documented, scores received by each student on the assessment measure are collated, and examples of student work are collected. The results are entered into a Quality Tracking and Assessment Matrix. The matrix reveals which assessment measures exceed, meet, or fail to meet faculty expectations. Results are reviewed by faculty and potential changes are discussed.

4. What are the findings and what do they tell the faculty about student learning in your program? (750 characters or less)

An analysis of the Quality Tracking and Assessment Matrix reveals that students are scoring at or above 80% on the specific assessment measures. Scores between 70% and 80% indicate that SLOs are marginally met and that changes may be considered if appropriate. Scores below 70% indicate student learning weakness and changes need to be made to improve student performance. At 80% and above, it is clear that students are performing well and program changes are not necessary.

5. **Based on the findings, did the faculty make any recommendations for changes to improve student achievement of the Program Student Learning Outcomes? Please describe the recommended action, what improvement in student learning the program hopes to see with this change, the proposed timeline, and how the program will know if the change has worked. If no recommendations for changes were made, please explain that decision. (750 Characters or less)**

Although the Quality Tracking and Assessment Matrix indicates that students are performing well, the volume of assessment data collected in the matrix makes concise and precise evaluation of student achievement unnecessarily burdensome. It has been proposed that specific courses be designated as the single, on-going source of assessment data for each Program Student Learning Outcome. This will reduce the quantity of data collected and provide a consistent yearly assessment metric. By making the evaluation process more efficient, it is hoped that faculty will be better able to accurately target class activities that could be improved for the enhancement of student achievement.

PROGRAM IMPROVEMENTS AND ASSESSING IMPACT ON STUDENT LEARNING

6. **In the past academic year, how did your program use the results of previous assessment cycles to make changes intended to improve student achievement of the Program Student Learning Outcomes? Please check all that apply.**

- ☐ Course curriculum changes
- ☐ Course prerequisite changes
- ☐ Changes in teaching methods
- ☐ Changes in advising
- ☐ Degree requirement changes
- ☐ Degree course sequencing
- ☐ Course enrollment changes (e.g., course capacity, grading structure [pass/fail, A-F])
- ☐ Changes in program policies/procedures
- ☐ Changes to Program Student Learning Outcomes (PSLOs)
- ☒ College-wide initiatives (e.g., High-Impact Practices)
- ☐ Faculty, staff, student development
- ☐ Other
- ☐ No changes were implemented in AY22.

If you checked "Other" above, please describe. (100 characters or less)

7. **Do you have any information about how well these or other past improvements are working? Are they achieving their intended goals? Please include any data or assessment results that help you demonstrate this. (750 characters or less)**

The High-Impact Learning Practice of undergraduate research in the CM A422 course has

demonstrated beneficial results. A Spring 2022 student, researching wind generation in Alaska, parlayed their interviews with wind generation companies into a summer internship which has led to a long-term employment contract. Direct assessment measures are unavailable however the results of an exit survey that asked students, "After attending the UAA CM program, do you feel that you can create written communications appropriate to the construction discipline?" 83% responded "Definitely yes", 8% "Probably yes", 8% "Might or might not".

8. PROGRAMS ARE NOT REQUIRED TO RESPOND TO QUESTION #8 FOR THEIR REPORT DUE ON OCTOBER 15, 2022. IT IS HERE JUST FOR THEIR REFERENCE.

9. Do you have any examples of post-graduate success you want to highlight? For example, major scholarships, the percent of students who pass licensure examinations, the percent of students accepted to graduate programs, the percent in post-graduation employment in the field or a related field. (750 characters or less)

A report by UA entitled "The Construction Industry and UA Graduates" noted that 86.4% of Construction Management graduates are working in AK within 1 yr. of graduation, making on average \$61,860/yr. within the first year and \$78,275/yr. on average within 5 years.

DEAN SECTION (Due to the program on January 15)

1. Based on the program's responses above, what guidance and support do you have for the program moving forward? (750 characters or less)

The Construction Management programs, both the AAS and BS, were reaccredited this past year with no weaknesses or deficiencies. However, there was a concern over the limited faculty and the workload associated with the Chair. As such we are searching for an additional faculty to start in Fall 2023.

2. What is the program doing particularly well in terms of its processes for the assessment and improvement of student learning, for example, the achievement of the Program Student Learning Outcomes, the closing of equity gaps, or addressing the core competencies? (750 characters or less)

The Construction Management programs, both the AAS and BS were reaccredited this past year with no weaknesses or deficiencies. The hard work and rigor of the program has led to a maximum timeframe between the accreditations. Additionally, all of the faculty should be commended for their work in the community, industry, and students.

Dean's signature:



Date: 2/3/2023