



Academic Program Assessment Report for AY 2022-2023

Program: Construction Management

Date report completed: 4/23/2023

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Assessment contributors (other faculty involved): N/A

Brief statement of Program mission and goals:

CM Mission Statement: Producing construction professionals by providing construction management knowledge and skills to pursue multiple career and educational paths.

CM Program’s goals: The goal of the Construction Management program is to prepare baccalaureate degree graduates who have the necessary skills to plan, organize, staff, lead and exercise control in the directing and coordinating of resources to achieve construction project objectives. Therefore, the objective of the program is to produce graduates who have the technical grounding in construction processes for infrastructure and have managerial skills to plan and direct projects.

I. Assessment of Student Learning Outcomes (SLOs) in this cycle. Including processes, results, and recommendations for improved student learning. Use Column H to describe improvements planned for 2023-2024 based on the assessment process.

A. Which of the program SLOs were assessed during this cycle? Please include the outcome(s) verbatim from the assessment plan.	B. When was this SLO <u>last</u> reported on prior to this cycle? (May 2022)	C. What method was used for assessing the SLO? Please include a copy of any rubrics used in the assessment process.	D. Who was assessed? Please fully describe the student group(s) and the number of students or artifacts involved (N).	E. What is the expected proficiency level and how many or what proportion of students should be at that level?	F. What were the results of the assessment? (Include the proportion of students meeting proficiency.)	G. What were the department’s conclusions about student performance?	H. What changes/improvements to the <u>program</u> are planned based on this assessment?
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<p>Outcome #2 Select and apply the knowledge of mathematics, science and technology to construction problems.</p>	<p>AY 2021-2022 (cycle 2)</p>	<p>As part of the senior project experience each student team is required to interview and determine the clients expectations for project deliverables. The team will apply the necessary math and science to meet the project needs.</p>	<p>CM 475- Senior Project</p>	<p>75% will attain 75%</p>	<p>90% attained 75%</p>	<p>The CM 475 is a one semester course in which the students as a team are required to identify their capstone project's; scope of work, deliverables, details, required data collection and communications with the client. This assessment looked at 4 senior projects for the use of mathematics within the project. All projects contained a strong strong amount of mathematics in determining construction related costs. All of the projects were preconstruction planning and estimating. Mathematical activities maninly focused around determining quantity of materials or services from construction docs or in field determination. Computation of projected costs were presented in the final report documents.</p>	<p>While the CM curricula contains strong elements of engineering design the most used computational analysis is completed in forecasting project costs. Perhaps one of the desgn courses should be used in future assessments. The current assessment of student industry preparedness is obvious and strong in the information assessed. No Changes should be made. The strong and rigorous process should continue.</p>
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<p>Outcome 6- Demonstrate an understanding of professional and ethical responsibilities.</p>	<p>AY 2021-2022 (cycle 2)</p>	<p>Throughout the semester the students are introduced to 8 intensive modules of instruction related to the Laws effecting the construction industry. Students are given written exams, critical think problems, group projects, discussion excercises to ensure the subject competence. The student understanding of ethical issues are extremely prevalent in the course and the following scores results represent the course as a whole. The example represents one part.</p>	<p>CM 461- Constructi on Law Students</p>	<p>75% will attain 75%</p>	<p>100% attained 75% Class average = 84.84%</p>	<p>CM 461 is a one semester course in which the students are required to prepare the senior level student with information of the legal aspects of the construction profession at the management level. Since this course uses a series of modules each module contains a specific critical discussion topic. In this this assesement the scores of one individual projects were compared to the percentage of the entire semester and then compared to the standard perscribed by the program</p>	<p>The findings of student learning in the area of ethical and professional responsibilities was extremely obvious since the subject watter really focused specifically on legal opinion. This course is mianly taught by adjunct instructors who have had years of legal experience. While the instructors do an excellent job in delivery of the subject material and knowledge of the industry need the instructor's could be given some trainging in the use of educational tools such case study evaluation and preparation of better defined assessment rubrics.</p>
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Comments on part I:

II. Closing the Loop. Describe at least one data-informed change to your curriculum during the 2022-2023 cycle. These are those that were based on, or implemented to address, the results of assessment from previous cycles.

A. What SLO(s) or other issues did you address in this cycle? Please include the outcome(s) verbatim from the assessment plan.	B. When was this SLO last assessed to generate the data which informed the change? Please indicate the semester and year.	C. What were the recommendations for change from the previous assessment column H and/or feedback?	D. How were the recommendations for change acted upon?	E. What were the results of the changes? If the changes were not effective, what are the next steps or the new recommendations?
Outcome 5- Communicate effectively regarding subjects related to construction activities	AY 2021-2022	Investigate the timing of the course as well as the possibility of offering a recourse such as a senior seminar course.	The CM faculty has begun introducing presentation excercises within numerous classes including a stronger emphasis in the senior project. The faculty are also working with the competition teams from the Associated Schools of Construction to develop a presentation that will be used in all classes.	Most instructors reported an obvious increase in presentation skills and comfort. The directed effort to develop an ability to communicate findings without hesitation. Building confidence early on in lower level classes seems to be making a positive impact.

Comments on part II: The Construction Management program worked to horminize the syllabi between the online and resident instruction courses. Also, four new certificates were created: Construction Procurement, Construction Project Manager, Construction Managememnt, Law, and Safety, and Surveying and Modeling; all in addition to the existing certificate Construction Planning and Estimating. Additionally, a Minor in Construction Management was created for non-construction major. All (certificates & minor) will create oppourtunities for non construction individuals to pursue careers in construction.