BS in Construction Management

Annual Program Report

Year:	2021-2022
Program:	Bachelor of Science in Construction Management
Contact Person (include email & phone#)	Dr. Seokyon Hwang

Summary of Continuous Improvement Efforts since Last Report

Provide a brief description of how assessment results have been used for program improvement. Point to a specific example of how an assessment provided the program with data it could use for improvement and what that improvement was, if possible, also show evidence of the improvement. You may look at data from the two previous academic years to support this case.

Respond here:

Since the need of improvement in estimating education was identified in 2019-2021, the Reese Construction Management Program have increased estimating related learning components in multiple courses in 2020-2021 (CMGT 1310 Intro to Construction Management) and 2021-2022 (CMGT 3340 Industrial and Mechanical Construction). In 2019-2020, it was found that some students required more diverse ways of communication regarding their course work, especially assignments. In particular, some students asked for more time to work on larger assignments in CMGT 4325. The CM Program has utilized Blackboard's communication functions more rigorously and considered extended durations for relatively more complex assignments. These efforts have brought positive effects.

Give students more time to complete the assignment.

Program Highlights Since Last Report

Identify and briefly discuss any programmatic curriculum changes made since the last report (e.g. new courses, course changes, SLO changes, course deletions).

Respond here:

Added two CM elective courses: CMGT 4380 Sustainable Built Environment, CMGT 4399 Special Topics in Construction Management – Study Abroad

Table 1. Assessment Results and Analyses for Current Cycle.

STAGE 1: PLAN				STAGE 2: DO		STAGE 3: STUDY
Departmental Student Learning Goal	**Program Student Learning Outcome**	**Assessment**	**Assessment Method/Location**	**Benchmark Expectations**	**Data Results**	**Actions/Goals Based on Data Results*** What do the data tell you? How will you use this data? How were data from the last cycle used to make changes during this cycle, and What were the results of those changes?
LG 5: Present ideas in writing in a clear, precise, organized, efficient and appropriately to the construction discipline	Create effective written communications appropriate to the construction discipline.	Exit Interview	Measured using Exit Interview: Self Assessment of Student Learning Outcomes	The average score of class to be 7/10 or higher.	Class average score 8.40/10	Target met
		Student Assignment – Capstone Final Report	CMGT 4470	The average score of class to be 80/100 or higher.	Class average score 82.4%	Target met
LG 4: Present ideas orally appropriately to the construction discipline	Create oral presentations appropriate to the construction discipline.	Exit Interview	Measured using Exit Interview: Self Assessment of Student Learning Outcomes	The average score of class to be 7/10 or higher.	Class average score 8.50/10	Target met
		Student Assignment – Capstone Project Presentation	CMGT 4470	The average score of class to be 80/100 or higher.	Class average score 89.4%	Target met
LG 1 Demonstrate proficiency with Construction Management Disciplines	Create a construction project safety plan.	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 8.70/10	Target met

			Learning Outcomes			
		Student homework	CMGT 4370	Average score of class to be 80 or higher out of 100 points.	Class average score 93.8%	Target met
	Create construction project cost estimates	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 8.70/10	Target met
		Students assignment – team project	CMGT 4420	The average score of class to be 80/100 or higher.	Class average score 80.10%	Target met
	Create construction project schedules	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 8.10/10	Target met
		Student assignment	CMGT 4310	The average score of class to be 80/100 or higher.	Class average score 80.59%	Target met
	Analyze construction documents for planning and management of construction processes	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher	Class average score 8.80/10	Target met
		Student assignment – <mark>Term Project</mark>	CMGT 3350	The average score of class to be 80/100 or higher.	Class average score 86.33%	Target met
	Analyze methods, materials, and equipment used to construct projects	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher	Class average score 9.20/10	Target met

		Student assignment – <mark>Term Project</mark>	CMGT 3340	The average score of the class is to be 80/100 or higher	Class average score 91.00%	Target met
	Apply electronic-based technology to manage the construction process	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher	Class average score 8.70/10	Target met
		Student assignment – Term Project	CMGT 4310	The average score of the class is to be 80/100 or higher.	Class average score 86.65%	Target met
	Apply basic surveying techniques for construction layout and control.	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 8.20/10	Target met
		Student assignment – <mark>Lab project</mark>	CMGT 2350	The average score of class to be 80/100 or higher	Class average score 82.10%	Target met
	Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 9.00/10	Target met
		Student assignment	CMGT 4325	The average score of the class is to be 80/100 or higher	Class average score 82.08%	Target met
	Understand construction risk management	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 8.40/10	Target met

		Student assignment	CMGT 4370	The average score of class to be 80/100 or higher.	Class average score 94.70%	Target met
	Understand construction accounting and cost control	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher.	Class average score 8.40/10	Target met
		Student assignment – quiz	CMGT 4420	The average score of the class is to be 80/100 or higher.	Class average score 86.10%	Target met
	Understand construction quality assurance and control.	Exit Interview	Measured using Exit Interview: Self Assessment of Student	Students rated themselves an average score of 8.31/10	Class average score 9.00/10	Target met
		Student assignment	CMGT 4325	The average score of the class is to be 80/100 or higher.	Class average score 80.42%	Target met
	Understand construction project control processes.	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of the class to be 7/10 or higher.	Class average score 8.60/10	Target met
		Student assignment	CMGT 4310	The average score of the class is to be 80/100 or higher.	Class average score 86.12%	Target met
	Understand the legal implications of contract, common, and regulatory law to manage a construction project	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher	Class average score 8.00/10	Target met

		Student assignment – ==case study==	CMGT 4350	The average score of class to be 80/100 or higher	Class average score 99.17%	Target met
	Understand the basic principles of sustainable construction.	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher	Class average score 8.60/10	Target met
		Student assignment	CMGT 1320	The average score of class to be 80/100 or higher	Class average score 74.07%	Target not met It is measured in CMGT 1310 from Fall 2021. Nine out of 42 students failed to submit the work. Without including those nine students, the class average is 94.27%
	Understand the basic principles of structural behavior	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of class to be 7/10 or higher	Class average score 8.00/10	Target met
		Student final exam	CMGT 3300	The average score of class to be 80/100 or higher.	Class average score 84.10%	Target met
	Understand the basic principles of mechanical, electrical and piping systems.	Exit Interview	Measured using Exit Interview: Self Assessment of Student	The average score of the class to be 7/10 or higher.	Class average score 8.80/10	Target met
		Student assignment	CMGT 3340	The average score of class to be 80/100 or higher	Class average score 80.00%	Target met
LG 2 Demonstrate the various skills in team-based performance	Apply construction management skills as a member of a multi-disciplinary team.	Exit Interview	Measured using Exit Interview: Self	Students rated themselves an average score of 8.87/10	Class average score 9.40/10	Target met

				Assessment of Student		
		Student assignment – Capstone Project	CMGT 4470	The average score of the class is to be 80/100 or higher.	Class average score 89.90%	Target met
LG 3 Utilize critical thinking skills to identify, analyze and resolve complex issues and incorporate the ability to connect choices and ethical reasoning	Analyze professional decisions based on ethical principles	Exit Interview	Measured using Exit Interview: Self Assessment of Student	Students rated themselves an average score of 9.31/10	Class average score 8.80/10	Target met
		Student assignment	CMGT 4325	The average score of class is to be 80/100 or higher.	Class average score 85.00%	Target met

Table 2. Continuous Improvement Results Since Last Report

Stage 4: ACT		
Actions/Goals Based on Data Results *Copy last cycle's actions/goals and report on progress toward continuous improvement on those here.*	**Status** *C=Complete* *P=Progressing* *N=No Action Taken*	**Discussion of Status** *If C, describe efforts that led to accomplishment of actions/goals.* *If P, provide update on progress made toward accomplishing actions/goals and what tasks remain* *If N, discuss why action toward accomplishing actions/goals has been delayed and what work will be initiated toward accomplishment.*

LG 1: SLO - Understand construction quality assurance and control: Give students more time to complete the assignment used for student assignment in CMGT 4325	C	Target met