MS Construction Management 5 Year Assessment Plan

PROGRAM LEARNING OUTCOMES (PLOS)

Students graduating with a M.S. Construction Management degree from Cal State East Bay will be able to:		I.L.O Alignment
a	Understand and implement risk management, scheduling and estimating, building information modeling, high performance building assessment systems, and project delivery methods.	1,6
b	Use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects.	2, 4
c	Plan and deliver a project meeting the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, and sustainability.	2, 5
	Assessment Plan repeats every three year	

Year 1: 2024-2025	
1.Which PLO(s) to assess	PLO a - Understand and implement risk management, scheduling and estimating, building information modeling, high performance building assessment systems, and project delivery methods. (ILO 1,6)
2. Is it aligned to an ILO?	Yes, ILO 1,6
3.Sample (courses/# of students)	CMGT 670 Construction Enterprise and Risk Management
4. SLO from the course	Analyze the different types of risk and assess their likelihood and impact; Evaluate the use of different quantitative analysis techniques such as Monte Carlo simulation to assess the overall effect of risk at a project and corporate

	level, thus facilitating decision making under uncertainty.
5.Assessment indicators	a-Midterm exam question; e- Final exam performance
6.Assessment instrument	Program rubric
7.Time (which semester(s))	a-Spring 2025
8.Responsible person(s)	a-Prof. Gaedicke
9.Ways of reporting (how, to who)	The results (quantitative and qualitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
10.Ways of closing the loop	Interaction between chair, faculty and industry advisory board

Year 2: 2025-2026

1.Which PLO(s) to assess	PLO b - use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects. (ILO 2,4)
.Is it aligned with an ILO?	Yes, ILO 2,4
.Sample (courses/# of students)	CMGT 685 Special Topics in Construction Management
SLO from the course	Identify current issues involving the construction industry. Conduct research, and present their findings orally and in writing.
.Assessment activity	Data Analysis and Project
.Assessment instrument	Oral presentation rubric
.Time (which semester(s))	Summer/Fall 2025
.Responsible person(s)	c-Prof.Shahbodaghlou
..Ways of reporting (how, to who)	The results (qualitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
.Ways of closing the loop	Interaction between chair, faculty and industry advisory board

Year 3: 2026-2027

.Which PLO(s) to assess	PLO c - plan and deliver a project meeting the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, and sustainability. (ILO 2,5)
. Is it aligned to an ILO?	Yes, ILO 2,5
.Sample (courses/# of students)	CMGT 680, Construction Safety and Health

*.SLO from the course	SLO 1 - Develop strong technical knowledge and understanding of the basic principles of hazard sources related to environment, humans and equipment;

1.Which PLO(s) to assess	PLO b - use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects. (ILO 2,4)
.Is it aligned with an ILO?	Yes, ILO 2,4
.Sample (courses/# of students)	CMGT 685 Special Topics in Construction Management
SLO from the course	Identify current issues involving the construction industry. Conduct research, and present their findings orally and in writing.
.Assessment activity	Data Analysis and Project
.Assessment instrument	Oral presentation rubric
.Time (which semester(s))	Summer/Fall 2029