

# BS Construction Management 5 Year Assessment Plan

## PROGRAM LEARNING OUTCOMES (PLOS)

Students graduating with a B.S. in Construction Management will be able to:  
on

<i>PLO 1</i> <i>ILO 6</i>	(1) An ability to identify, formulate, and solve broadly defined technical problems by applying knowledge of mathematics and science and/or engineering to areas relevant to construction.
<i>PLO 2</i> <i>ILO 1,6</i>	(2) An ability to formulate or design a system, process, procedure or program to meet desired needs.
<i>PLO 3</i> <i>ILO 4,5</i>	(3) An ability to develop and conduct experiments or test hypotheses, analyze and interpret data and use construction science and professional judgement to draw conclusions.
<i>PLO 4</i> <i>ILO 2</i>	(4) An ability to communicate effectively with a range of audiences.
<i>PLO 5</i> <i>ILO 5,6</i>	(5) An ability to understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.
<i>PLO 6</i> <i>ILO 3,4</i>	(6) An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty

### Five Year Plan

Year 1: 2023-2024

1. Which PLO(s) to assess

9. <i>Ways of reporting (how, to who)</i>	The results (quantitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
10. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board

Year 2: 2024-2025	
1. <i>Which PLO(s) to assess</i>	PLO (2) An ability to formulate or design a system, process, procedure or program to meet desired needs. Have experience in solving real life problems. (ILO 1,6)
2. <i>Is it aligned to an ILO</i>	Yes, ILO 1,6
3. <i>Sample (courses/# of students)</i>	h-CMGT 440; Construction Project Management;
4. <i>SIO from the course</i>	Determine accurate costs and schedules for maintaining projects within budget and time constraints. Identify project delivery methods and associated risks. Analyze contractual information and bidding and procurement processes.
5. <i>Assessment indicators</i>	h-Project and exams;
6. <i>Assessment instrument</i>	Program rubric
7. <i>Time (which semester(s))</i>	h-Fall 2024;
8. <i>Responsible person(s)</i>	h-TBD;
9. <i>Ways of reporting (how, to who)</i>	The results (quantitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
10. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industrial advisory board



**Year 5: 2027-2028**

<i>1. Which PLO(s) to assess</i>	PLO (5) An ability to understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts. (ILO 5,6)
<i>2. Is it aligned with ILO</i>	Yes, ILO 5,6
<i>3. Assessment indicators</i>	a- Final exam performance
<i>4. Assessment Instrument</i>	Program rubric
<i>5. Sample (courses/# of students)</i>	a- CMGT 430
<i>6. SLO from course</i>	a. Students will identify the fundamental elements of sustainability 2. Students understand the Green Building Assessment methods (such as LEED) and apply them to a building 3. Students will evaluate the sustainability of a new or existing construction (Life Cycle Analysis, LCA) 4. Students will describe indoor environmental quality issues and problems, including Sick Building Syndrome (SBS).
<i>7. Time (which semester(s))</i>	a-Fall 2027
<i>8. Responsible person(s)</i>	a-Prof. Gaedicke
<i>9. Ways of reporting (how, to who)</i>	The results (quantitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
<i>10. Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board

**Year 5: 2027-2028**

<i>1. Which PLO(s) to assess</i>	PLO (6) An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty. (ILO 3,4)
<i>2. Is it aligned with ILO</i>	Yes, ILO 3,4
<i>3. Assessment indicators</i>	a- Course Project performance
<i>4. Assessment Instrument</i>	Program rubric
<i>5. Sample (courses/# of students)</i>	a- CMGT 493