CHICO STATE UNIVERSITY

ASSESSMENT SUMMARY UPDATE

PROGRAM: B.S. Construction Management

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
2016-2017	1. Create written communications appropriate to the construction discipline.	Embedded Assessment was conducted in CMGT 460, Legal Aspects. Written Paper - Target 75% of class achieves 70% or better.	86% of class achieved 70% or better.	None
	2. Create oral presentations appropriate to the construction discipline.	Embedded Assessment was conducted in CMGT 332, Construction Methods Analysis. Presentation - Target 70% of class achieves 70% or better.	100% of class achieved 70% or better.	None
	3. Create a construction project safety plan.	Embedded Assessment was conducted in CMGT 360, Project Management. Safety Plan Assignment - Target 75% of class achieves 80% or better.	Safety Plan Assignment- 60% of class achieved 70% or better.	CMGT 360: This particular SLO action plan has been submitted to ACCE as part of the 2nd year progress report. An entirely new assignment(s) is being created to include discussion on: Cal OSHA requirements, construction safety statics, purpose and structure of a project safety plan, safety office responsibilities, employee safety responsibilities, and drug free workplace legislation. Student assessment will include: creating a project specific safety plan using CD's from a prior course (CMGT 210), by customizing a company standard safety plan, creating a JHA, tool box meeting(s), hazardous communications binder, jobsite utilization plan with an emphasis on safety items.
	4. Create construction project cost estimates.	Embedded Assessment was conducted in CMGT 450, Construction (Building) Estimating, Lab 7- Target 75% of class achieves 70% or better, Lab 8- Target 75% of class achieves 70% or better. And CMGT 458, Heavy Construction Estimating, Activity 8- Target 75% of class achieves 70% or better.	Lab 7- 86% of class achieved 70% or better. Lab 8- 75% -84% of class achieved 70% or better. Activity 8- 80% of class achieved 70% or better.	None

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	5. Create construction project schedules.	Embedded Assessment was conducted in CMGT 457, Project Control and Scheduling. Lab 4- Target 70% of class achieves 70% or better, Lab 6 - Target 70% of class achieves 70% or better.	Lab 4- 80% of class achieved 70% or better. Lab 6- 67% of class achieved 70% or better.	CMGT 457: The instructor's specific plan is to add one more in class lab workday to this deliverable to ensure that students understand the project, the assignment, and have adequate time to complete the work.
	6. Analyze professional decisions based on ethical principles.	Embedded Assessment was conducted in CMGT 450, Construction (Building), Final Exam - Target 75% of class achieves 70% or better Estimating. And CMGT 460, Legal Aspects, Written Paper - Target 70% of class achieves 70% or better	Final Exam- 34% of class achieved 70% or better Written Paper- 84% of class achieved 70% or better	CMGT 450: The prior faculty member who was responsible for the missed performance criteria data will be providing the new instructor with the discussion and assessment content. Minor changes will be made to the assessment to alter it from an in class exam to a take home assignment. This should provide the students the actual time they need to do a proper analysis.
	7. Analyze construction documents for planning and management of construction processes.	Embedded Assessment was conducted in CMGT 360, Construction Project Management and CMGT 457, Project Control and Scheduling. Lab 5B- Target 70% of class achieves 70% or better, Final Exam - Target 70% of class achieves 70% or better.	Lab 5B - 80% of class achieved 70% or better Final Exam- 65% of class achieved 70% or better	CMGT 360: The direct assessment removed from this course due to I-R-DA remapping. CMGT 457: The instructor's specific plan is to provide create a new assignment for the assessment tool, in lieu of using an exam. This will provide the proper amount of time needed to analyze a situation and apply their topical content subject matter knowledge.
	8. Analyze methods, materials, and equipment used to construct projects.	Embedded Assessment was conducted in CMGT 332, Construction Methods Analysis. Quiz 2- Target 70% of class achieves 70% or better And CMGT 335, Construction Equipment. Quiz 1- Target 70% of class achieves 70% or better, Quiz 2 - Target 70% of class achieves 70% or better.	Quiz 2- 83% of class achieved 70% or better Quiz 1- 47% of class achieved 70% or better Quiz 2- 78% of class achieved 70% or better	CMGT 335: During AY 2016-2017 a new faculty member taught this course. For AY 2017-2018 the original long term fully tenured faculty member is again teaching this course. Direct assessment will be performed and analyzed Fall 2017.
	9. Apply construction management skills as an effective member of a multi-disciplinary team.	Embedded Assessment was conducted in CMGT 332, Construction Methods Analysis. Assignment 8 - Target 70% of class achieves 70% or better	Assignment 8 - 76% of class achieved 70% or better	None
	10. Apply electronic-based technology to manage the construction process.	Embedded Assessment was conducted in CMGT 110, Construction Graphics and	Activity 3- 86/70% Activity 5- 75/70% Activity 7- 53/70%	CMGT 110: The direct assessment removed from this course due to I-R-DA remapping.

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		CMGT 210, Analysis of Construction Drawings and Specifications All activities had a target of 70% of the students achieving a 70% or better.	Activity 1- 80/70% Activity 5- 67/70% Activity 8- 81/70%	CMGT 210: The direct assessment removed from this course due to I-R-DA remapping. CMGT 457: The direct assessment moved to this course due to I-RDA remapping. This will be assessed and evaluated Fall 2017.
	11. Apply basic surveying techniques for construction layout and control.	Embedded Assessment was conducted in CMGT 330, Principles of Soil Mechanics and Foundations and CMGT 335. Quiz 7 - Target 70% of class achieves 70% or better. And Construction Equipment. Quiz 7 Target of 70% of the students achieving a 70% or better.	Quiz 7 - 74% of class achieved 70% or better Quiz 7 - 100% of class achieved 70% or better	None
	12. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.	Embedded Assessment was conducted in CMGT 360, Construction Project Management. Midterm Target of 75% of the students achieving a 79% or better on both CLO assessments.	Midterm Exam- 57% of class achieved 79% or better on both midterm assessments	CMGT 360: The new instructors plan is to rewrite and combine the two directs assessments into one. Further, there will now be a dedicate lecture focusing on the different types of project delivery systems as well as highlighting the roles and responsibilities of each party within each delivery system. The various forms of contracts will be reviewed and scenarios provided to understand the reasons for using certain contract types, depending on the project delivery system used.
	13. Understand construction risk management.	Embedded Assessment was conducted in CMGT 460, Legal Aspects. Exam Target of 75% of the students achieving a 79% or better	Exam - 55% of class achieved 79% or better	CMGT 460: The Instructor's specific plan is to modify course content and exam methodology to meet ACCE taxonomy standards.
	14. Understand construction accounting and cost control.	Embedded Assessment was conducted in CMGT 455, Construction Cost Management. Lab 1- Target 70% of class achieves 70% or better	Lab 1- 74% of class achieved 70% or better	None
	15. Understand construction quality assurance and control.	Embedded Assessment was conducted in CMGT 455, Construction Cost Management. Quiz 7 Target of 70% of the students achieving a 70% or better.	Quiz 1- 83% of class achieved 70% or better	None
	16. Understand construction project control processes.	Embedded Assessment was conducted in CMGT 455, Construction Cost Management.	Lab 4- - 86% of class achieved 70% or better	None

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		Lab 4- Target 70% of class achieves 70% or better		
	17. Understand the legal implications of contract, common, and regulatory law to manage a construction project.	Embedded Assessment was conducted in CMGT 462, Construction Contracts. Exam Target of 85% of the students achieving a 75% or better on both CLO assessments.	Exam - 46% of class achieved 75% or better Exam - 100% of class achieved 75% or better	CMGT 462: During AY 2016-2017 a new faculty member taught this course. For AY 2017-2018 the original long term fully tenured faculty member is again teaching this course. Direct assessment will be performed and analyzed Fall 2017.
	18. Understand the basic principles of sustainable construction.	Embedded Assessment was conducted in CMGT 235, Electrical and Mechanical Systems. . Skill Review- Target 70% of class achieves 70% or better	Skill Review #2- 100% of class achieved 70% or better	None
	19. Understand the basic principles of structural behavior.	Assessment was conducted in CMGT 345, Mechanics of Materials. All activities had a target of 75% of the students achieving a 80% or better.	None of the assessments met Target.	CMGT 345: The prior instructors plan was to provide more out of class help for students and modify course content to provide for more instruction on this topic. The new instructor is following this action plan.
	20. Understand the basic principles of mechanical, electrical and plumbing systems.	Embedded Assessment was conducted in CMGT 235, Electrical and Mechanical Systems. All activities had a target of 70% of the students achieving a 70% or better.	Exam 1- 85% of class achieved 70% or better Exam 2- 76% of class achieved 70% or better Exam 3- 78% of class achieved 70% or better	None

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
2015-2016	*1. A graduate should be able to create written communications appropriate to the construction discipline.*	Embedded Assessment to be conducted in CMGT 460		None
	2. A graduate should be able to create oral presentations appropriate to the construction discipline.	Embedded Assessment to be conducted in CMGT 332 and 360.		None
	3. A graduate should be able to create a construction project safety plan.	Embedded Assessment to be conducted in CMGT 360		None
	4. A graduate should be able to create construction project cost estimates.	Embedded Assessment to be conducted in CMGT 450, and 458		None
	5. A graduate should be able to create construction project schedules.	Embedded Assessment to be conducted in CMGT 457.		None
	6. A graduate should be able to analyze professional decisions based on ethical principles.	Assessment conducted in CMGT 450 and 460		None
	7. A graduate should be able to analyze construction documents for planning and management of construction processes	Embedded Assessment conducted in CMGT 360, and 457		None
	8. A graduate should be able to analyze methods, materials, and equipment used to construct projects.	Embedded Assessment to be conducted in CMGT 332, 335		None
	9. A graduate should be able to apply construction management skills as an effective member of a multi-disciplinary team.	Embedded Assessment to be conducted in CMGT 332, and 360		None
	10. A graduate should be able to apply electronic-based technology to manage the construction process.	Embedded Assessment to be conducted in CMGT 110 and 210.	.	None

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
	11. A graduate should be able to apply basic surveying techniques for construction layout and control.	Embedded Assessment to be conducted in CMGT 330 and 335.		None
	12. A graduate should be able to understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.	Embedded Assessment to be conducted in CMGT 360		None
	13. A graduate should be able to understand construction risk management.	Embedded Assessment to be conducted in CMGT 460.		None
	14. A graduate should be able to understand construction accounting and cost control.	Embedded Assessment to be conducted in CMGT 455.		None
	15. A graduate should be able to understand construction quality assurance and control.	Embedded Assessment to be conducted in CMGT 455		None
	16. A graduate should be able to understand construction project control processes.	Embedded Assessment to be conducted in CMGT 455		None
	17. A graduate should be able to understand the legal implications of contract, common, and regulatory law to manage a construction project.	Embedded Assessment to be conducted in CMGT 460		None
	18. A graduate should be able to understand the basic principles of sustainable construction.	Embedded Assessment to be conducted in CMGT 235 plan		None
	19. A graduate should be able to understand the basic principles of structural behavior.	Assessment was conducted in CMGT 330, 345, and 440		None
	20. Understand the basic principles of mechanical, electrical and plumbing systems.	Embedded Assessment was conducted in CMGT 210, but not 235.		None

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
2014-2015	*1. A graduate should be able to create written communications appropriate to the construction discipline.*	Embedded Assessment was conducted in CMGT 100, 360,457,460, and 462.	Met all assessment targets, except 1 of 2 in CMGT457	None
	2. A graduate should be able to create oral presentations appropriate to the construction discipline.	Embedded Assessment was conducted in CMGT 332.	Met Assessment target	None
	3. A graduate should be able to create a construction project safety plan.	Embedded Assessment was conducted in CMGT 360, and 462.	Met Assessment target	None
	4. A graduate should be able to create construction project cost estimates.	Embedded Assessment was conducted in CMGT 335, 450, and 458	Assessment targets not met in 335 and in one of two assessments in 458	None
	5. A graduate should be able to create construction project schedules.	Embedded Assessment was conducted in CMGT 457.	Met target in one of two direct assessments.	Revise Lab activity 5 to provide students more guidance.
	6. A graduate should be able to analyze professional decisions based on ethical principles.	Assessment was conducted in CMGT 135, 210,360,450, 455, and 460	Met Assessment target in most classes	None
	7. A graduate should be able to analyze construction documents for planning and management of construction processes	Embedded Assessment was conducted in CMGT 110, 330, 332,360,460, and 462	Met Assessment target in most classes.	None
	8. A graduate should be able to analyze methods, materials, and equipment used to construct projects.	Embedded Assessment was conducted in CMGT 135, 330, 440	Met assessment targets in almost every assessment	None
	9. A graduate should be able to apply construction management skills as an effective member of a multi-disciplinary team.	Embedded Assessment was conducted in CMGT 332, and 360	Met assessment targets in almost every assessment	None
	10. A graduate should be able to apply electronic-based technology to manage the construction process.	Embedded Assessment was conducted in CMGT 110,210,332,450,457, and 458.	Met assessment targets in every assessment, except one.	None

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
	11. A graduate should be able to apply basic surveying techniques for construction layout and control.	Embedded Assessment was conducted in CMGT 330.	Met assessment targets in every assessment.	None
	12. A graduate should be able to understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.	Embedded Assessment was conducted in CMGT 110, 210, and 360	Met assessment targets in every assessment, except one	None
	13. A graduate should be able to understand construction risk management.	Embedded Assessment was conducted in CMGT 360 and 440.	Met targets in CMGT 440. Met only one of three targets in CMGT 360.	None
	14. A graduate should be able to understand construction accounting and cost control.	Embedded Assessment was conducted in CMGT 335, 455, 458, and 462.	Met targets in CMGT 335 and 455. Met one of two targets in CMGT 458, and met no targets in 460.	Provide additional reading as to bonding definitions, and types of lending collateral in 460, and conduct an exam review session in 458.
	15. A graduate should be able to understand construction quality assurance and control.	Embedded Assessment was conducted in CMGT 135, 330,360,and 455	Met targets in CMGT 330 and 455. Met one of three targets in CMGT 360, and met no targets in 135.	Reduce target to 70% passing in 360, target met.
	16. A graduate should be able to understand construction project control processes.	Embedded Assessment was conducted in CMGT 455, and 457	Met target in CMGT 455. Met one of two targets in CMGT 457.	First time trying this assignment in 457, will retry in the Fall to see if target is met.
	17. A graduate should be able to understand the legal implications of contract, common, and regulatory law to manage a construction project.	Embedded Assessment was conducted in CMGT 100, 460, and 462.	Met all targets.	None
	18. A graduate should be able to understand the basic principles of sustainable construction.	Embedded Assessment was conducted in CMGT 135,not 235 and 360 as specified in assessment plan	No embedded assessments conducted; no results available.	None
	19. A graduate should be able to understand the basic principles of structural behavior.	Assessment was conducted in CMGT 330, 345, and 440	Met targets in CMGT 440. Met one of two targets in CMGT 330, and met no targets in 345.	In 345, instructor chose to lower targets to be in line with department policy, should result in better results in meeting assessment targets.
	20. Understand the basic principles of mechanical, electrical and plumbing systems.	Embedded Assessment was conducted in CMGT 210, but not 235.	No embedded assessments conducted; no results available for 235. Met all targets in CMGT 210	Conduct assessment in CMGT 235.

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2013-2014	*1. A graduate should be able to create written communications appropriate to the construction discipline.*	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	2. A graduate should be able to create oral presentations appropriate to the construction discipline.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	3. A graduate should be able to create a construction project safety plan.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	4. A graduate should be able to create construction project cost estimates.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	5. A graduate should be able to create construction project schedules.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	6. A graduate should be able to analyze professional decisions based on ethical principles.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	7. A graduate should be able to analyze construction documents for planning and management of construction processes	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	8. A graduate should be able to analyze methods, materials, and equipment used to construct projects.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
	9. A graduate should be able to apply construction management skills as an effective member of a multi-disciplinary team.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	10. A graduate should be able to apply electronic-based technology to manage the construction process.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	11. A graduate should be able to apply basic surveying techniques for construction layout and control.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	12. A graduate should be able to understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	13. A graduate should be able to understand construction risk management.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	14. A graduate should be able to understand construction accounting and cost control.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	15. A graduate should be able to understand construction quality assurance and control.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	16. A graduate should be able to understand construction project control processes.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
	17. A graduate should be able to understand the legal implications of contract, common, and regulatory law to manage a construction project.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	18. A graduate should be able to understand the basic principles of sustainable construction.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None
	19. A graduate should be able to understand the basic principles of structural behavior.	Assessment was conducted in CMGT 345 using the following tools. a. Shear force and bending moment diagram quiz and final exam. b. Bean design quiz and final exam. c. Column analysis quiz and final exam.	a. 83% of students achieve the goal. b. 32% of students achieve the goal. c. 32% of students achieve the goal.	None
	20. Understand the basic principles of mechanical, electrical and plumbing systems.	No embedded assessment was conducted this year. Future assessment will be determined based on the newly developed Student Learning Outcomes.	No embedded assessments conducted; no results available.	None

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2012-2013				

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