PROGRAM OUTCOMES ASSESSMENT SEMESTER REPORT

Fall 2019

DEGREE/CERTIFICATE:Construction Management, Associate of Applied Science (AAS)DIVISION:Business, Social Sciences, and History

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	_		(Number	"Fives"	"Threes"	Percentage of
			of	(Number	(Number	Students
			Students	who	who	Competent in
	Course		Assessed)	Exceed)	Meet)	Mapped
PROGRAM OUTCOME#	Number	Learning Outcome	N	N≥90	89-70	Outcome
Program Outcome 1:						
Apply effective communication,	CMGT 1033	1. Describe the role of OSHA on construction sites and in	47	14	28	89.36%
both orally and in writing.		construction accidents.				
		5. Discuss the role of project management in	47	13	29	89.36%
		coordinating safety on construction sites.				
	CMGT 1103	1. Identify concepts and techniques of the graphic	30	0	30	100.00%
	CMGT 1212	communication language. 1. Identify different properties of various building	44	15	28	97.73%
	CIVIGI 1213	materials used in building construction.	44	15	20	97.75%
	CMGT 2203	4. Conduct project meetings.	37	0	37	100.00%
		Develop a project for oral presentation.	17	5	10	88.24%
Comments on Program Outcome		chieved 70% or better on these assessments. We will conti				00.2470
Program Outcome 2:	1. Students at	theved 70% of Detter on these assessments. We will conti	inde to mon	itor results.	•	
Apply the skills to estimate	CMGT 2103	2. Apply basic construction methods and procedures to	34	34	0	100.00%
quantities and costs for the	0.000 2200	the estimating process.		3.	Ĭ	200.007
bidding process in a construction		3. Prepare quantitative materials takeoff for a residential	34	34	0	100.00%
project.		project estimate.		_		
p. ojecu		4. Estimate labor and equipment productivity for a	33	26	6	96.97%
		residential project.				
	CMGT 2513	1. Analyze costs when bidding on a construction project.	20	18	0	90.00%
		Prepare quantitative materials takeoff for a	20	18	0	90.00%
		commercial/industrial project estimate.				
		3. Use historical cost data for estimating materials, labor,	20	18	0	90.00%
		and equipment.				
Comments on Program Outcome 2	2: Students ac	chieved 70% or better on these assessments. We will conti	inue to mon	itor results.		
Program Outcome 3:						

Apply the aptitude to schedule a	CMGT 2413	2. Schedule construction project resources for effective	17	0	17	100.00%
basic construction project.		cost control.				
		3. Determine and adjust activity durations using resource	17	0	17	100.00%
		allocation and resource leveling techniques.				
		4. Monitor and control progress using a construction	17	0	17	100.00%
		project schedule.				
Comments on Program Outcome	3: Students a	chieved 70% or better on these assessments. We will continue	nue to monit	or results.		
Program Outcome 4:						
Apply current technology related	CMGT 1103	5. Create working drawings of a typical residential	33	23	10	100.00%
to the construction process.		structure utilizing computer software.				
	CMGT 2413	5. Use scheduling software in planning and scheduling	17	0	17	100.00%
		construction projects.				
	CMGT 2513	1. Analyze costs when bidding on a construction project.	21	16	5	100.00%
Comments on Program Outcome	<u> </u> <mark>4: Students ac</mark>	l chieved 70% or better on these assessments. We will continue to the continue of the continue	nue to monit	or results.		
Program Outcome 5:						
Apply the interpretation of	CMGT 1103	3. Interpret working drawings of residential and	34	29	4	97.06%
construction documents		commercial structures.				
(contracts, specifications, and	CMGT 2103	1. Interpret project plans and specifications to prepare	25	17	8	100.00%
drawings) used in managing a		an estimate.				
construction project.	CMGT 2203	2. Demonstrate proper use of documents for managing	37	0	33	89.19%
		construction projects				
Comments on Program Outcome	5: Students a	chieved 70% or better on these assessments. We will contin	nue to monit	or results.		
Program Outcome 6:						
Apply basic principles of	CMGT 1103	2. Demonstrate an understanding of project	35	0	35	100.00%
construction accounting.		specifications and location of materials by specification				
		division.				
	CMGT 2413	2. Schedule construction project resources for effective	17	0	17	100.00%
		cost control.				
	CMGT 2203	5. Demonstrate an understanding of how to prepare a	37	0	37	100.00%
		construction project progress payment using a schedule				
		of values.				
Comments on Program Outcome	6: Students a	chieved 70% or better on these assessments. We will continue	nue to monit	or results.		
Program Outcome 7:						

CMGT 2353	1. Demonstrate proper use of surveying equipment and	16	16	0	100.00%
	field notes.				
	2. Determine the measurement of vertical distances by	16	16	0	100.00%
	differential leveling.				
	3. Determine the measurement of angles and directions,	16	16	0	100.00%
	horizontal and vertical.				
	4. Perform a site layout.	16	16	0	100.00%
<mark>7: Students a</mark> c	chieved 70% or better on these assessments. We will contin	nue to monit	or results.		
CMGT 2003	5. Explain ethics in construction.	49	13	29	85.71%
CMGT 2203	3. Identify professional ethics of construction project	37	0	36	97.30%
	team members.				
3: Students a	chieved 70% or better on these assessments. We will contin	nue to monit	or results.		
CMGT 1033	1. Describe the role of OSHA on construction sites and in	53	0	53	100.00%
	construction accidents.				
CMGT 1213	2. Explain how different building systems and	52	0	51	98.08%
	components are selected, constructed, installed,				
	connected, and integrated.				
CMGT 2003	1. Identify the essential elements of a legally enforceable	55	13	32	81.82%
	contract.				
	3. Identify the effects that changes to the scope of work	55	5	35	72.73%
	have on contractual obligations.				
CMGT 2203	2. Demonstrate proper use of documents for managing	37	0	33	89.19%
	construction projects.				
9: Students a	chieved 70% or better on these assessments. We will continue	nue to monit	or results.		
CMGT 1213	1. Identify different properties of various building	52	0	52	100.00%
	materials used in building construction.				
	2. Explain how different building systems and	52	0	52	100.00%
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	· · · · · · · · · · · · · · · · · · ·				
	3. Compare properties and applications for heavy timber,	52	0	52	100.00%
	dimensional lumber, engineered lumber, structural wood				
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	7: Students as CMGT 2003 CMGT 2203 CMGT 1033 CMGT 1213 CMGT 2203 CMGT 2203 P: Students as CMGT 2203	2. Determine the measurement of vertical distances by differential leveling. 3. Determine the measurement of angles and directions, horizontal and vertical. 4. Perform a site layout. 7: Students achieved 70% or better on these assessments. We will continuous of team members. 8: Students achieved 70% or better on these assessments. We will continuous of team members. 8: Students achieved 70% or better on these assessments. We will continuous of team members. 8: Students achieved 70% or better on these assessments. We will continuous of team members. 8: Students achieved 70% or better on these assessments. We will continuous of team members. 8: Students achieved 70% or better on these assessments. We will continuous of the construction accidents. 9: CMGT 1213	field notes. 2. Determine the measurement of vertical distances by differential leveling. 3. Determine the measurement of angles and directions, horizontal and vertical. 4. Perform a site layout. 7. Students achieved 70% or better on these assessments. We will continue to monit CMGT 2003 5. Explain ethics in construction. CMGT 2003 3. Identify professional ethics of construction project team members. 8. Students achieved 70% or better on these assessments. We will continue to monit team members. CMGT 1033 1. Describe the role of OSHA on construction sites and in construction accidents. CMGT 1213 2. Explain how different building systems and components are selected, constructed, installed, connected, and integrated. CMGT 2003 1. Identify the effects that changes to the scope of work have on contractual obligations. CMGT 2203 2. Demonstrate proper use of documents for managing construction projects. 3. Students achieved 70% or better on these assessments. We will continue to monit contract. 3. Identify different properties of various building materials used in building construction. 2. Explain how different properties of various building materials used in building construction. 2. Explain how different building systems and components are selected, constructed, installed, connected, and integrated. 3. Compare properties and applications for heavy timber, 52	field notes. 2. Determine the measurement of vertical distances by differential leveling. 3. Determine the measurement of angles and directions, horizontal and vertical. 4. Perform a site layout. 6. Horizontal and vertical. 7. Students achieved 70% or better on these assessments. We will continue to monitor results. CMGT 2003 5. Explain ethics in construction. CMGT 2203 3. Identify professional ethics of construction project team members. 3. Students achieved 70% or better on these assessments. We will continue to monitor results. CMGT 1033 1. Describe the role of OSHA on construction sites and in construction accidents. CMGT 1213 2. Explain how different building systems and components are selected, constructed, installed, connected, and integrated. CMGT 2003 1. Identify the effects that changes to the scope of work have on contractual obligations. CMGT 2203 2. Demonstrate proper use of documents for managing construction projects. 3. Identify different properties of various building 52 CMGT 2203 3. Identify different properties of various building 52 O construction projects. 3. Explain how different building systems and components are selected, construction. 2. Explain how different building systems and components are selected, constructed, installed, connected, and integrated. 3. CMGT 2213 1. Identify different properties of various building 52 O construction projects.	Students achieved 70% or better on these assessments. We will continue to monitor results.

Comments on Program Outcome	10: Students	achieved 70% or better on these assessments. We will con	tinue to moi	nitor result	S.	
Program Outcome 11:						
Understand basic safety hazards	CMGT 1033	1. Describe the role of OSHA on construction sites and in	53	0	53	100.00%
on a construction site and		construction accidents.				
standard prevention measures.		2. Identify unsafe acts and unsafe conditions and how	53	0	53	100.00%
		they cause construction accidents.				
		3. Recognize the four most common causes of	53	0	53	100.00%
		construction site fatalities and how to prevent them.				
	CMGT 2303	Apply basic structural design principles.	19	0	19	100.00%
		3. Calculate stresses on structural members.	19	0	19	100.00%
	CMGT 2253	2. Communicate the importance of life safety in the	29	0	25	86.21%
		construction and maintenance of buildings.				
Comments on Program Outcome	11: Students	achieved 70% or better on these assessments. We will con	tinue to moi	nitor result	S.	
Program Outcome 12:						
Understand the basic principles	CMGT 2303	1. Explain forces and loads.	27	0	27	100.00%
of structural design.		2. Apply basic structural design principles.	19	0	19	100.00%
		4. Compare materials for structural design.	19	0	19	100.00%
Comments on Program Outcome:	12: Students	achieved 70% or better on these assessments. We will con	tinue to moi	nitor result	S.	
Program Outcome 13:						
Understand the basic principles	CMGT 1213	5. Identify major components of electrical, mechanical,	52	0	52	100.00%
of mechanical, electrical, and		and plumbing systems in buildings.				
pipings systems.	CMGT 2253	1. Apply knowledge of electrical, plumbing, and heating,	29	0	25	86.21%
		ventilating, and air conditioning (HVAC) systems in the				
		management of construction projects.				
Comments on Brogram Outcome	12: Students	achieved 70% or better on these assessments. We will con	tinua to mo	oitor rocult	<u> </u>	

Comments on Program Outcome 13: Students achieved 70% or better on these assessments. We will continue to monitor results.

Plan of action: How has previous data been used to improve these results (if applicable)? How will the data be used to improve program outcomes? What is the plan of action to improve program outcomes. Students achieved 70% or better on these assessments. We will continue to monitor results.