



Construction Technology: Management Program

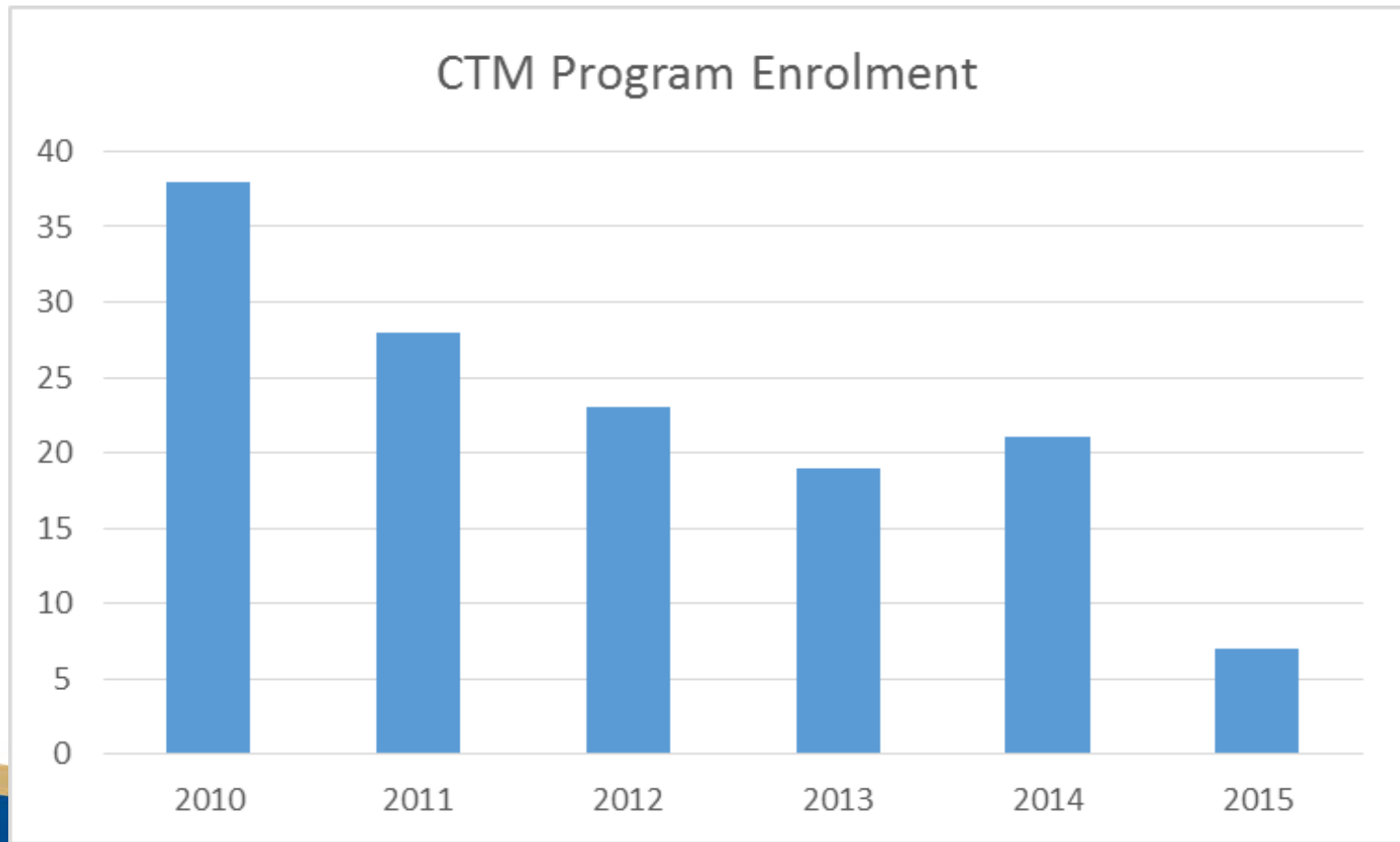
Fall 2015 Assessment Report



Curriculum Coordinator: Sarah Todd

Date of Presentation: January 15, 2015

Operational Objective: Enrolment Not Met



IAB Comments

- Mr. Reilly presented the present dilemma regarding Construction Technology: Management enrollment being so poor.
- *Enrolment is so low it is unsustainable: Should we change our approach?*
- IAB: A name change should be considered. Remove the word “management”.
- It is worth considering having a 2 year program that develops technology skills: carpentry, construction, estimating, scheduling, drafting, print reading....and
- a 4 year program that introduces the business management aspects. An internship(s) would be required and receive college credit. Perhaps students simply want to be focused on a 4 year program from the start. Check out other CM degrees such as Clarkson, Alfred and ESF.



What was assessed?

CTM Program Outcomes:

1. The graduate of the SUNY Canton Construction Technology Management program will be able to **communicate effectively in both written and oral forms** to a level acceptable of an entry level construction technician.
2. The graduate of the SUNY Canton Construction Technology Management program will be able to apply **college level math concepts** (Business Math, Algebra, Geometry and Trigonometry) in the solution of **construction related problems**.
3. The graduate of the SUNY Canton Construction Technology Management program will be able to use common **computer applications** (Word Processing, Spreadsheets, Database, and Cadd) effectively.
4. The graduate of the SUNY Canton Construction Technology Management program will demonstrate familiarity with and understanding of the properties and applications of common **construction materials and methods** in the conduct of an entry level position in the construction industry.
5. The graduate of the SUNY Canton Construction Technology Management program will demonstrate familiarity with and understanding of fundamental **business management theory** in relation to an entry level position with a construction-related business.



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5. The graduate of the SUNY Canton Construction Technology Management program will demonstrate familiarity with and understanding of fundamental **business management theory** in relation to an entry level position with a construction-related business.
6. (added 2016) **“Professional Skills”: Student has acquired a variety of professional-related abilities typical of that expected of an entry level technician. These include print reading, quantity take-off, interpretation of schedules and team work.**



Where were outcomes assessed?

SLO1. communicate effectively in both written and oral forms

CONS280
CONS216

Civil Materials
Soils in Construction

SLO 2. apply college level math concepts

CONS101

Elementary Surveying

SLO 3. use common computer applications

CONS132
CONS222
CONS216

Construction Drafting
Estimating
Soils in Construction

SLO 4. construction materials and methods

CONS111
CONS274

Commercial Structures
Construction Mgmnt

SLO 5. fundamentals of business management theory in relation to an entry level position with a construction-related business.

BSAD100
BSAD201
ACCT104

Intro to Business
Business Law 1
Intro to Accounting

How was the assessment accomplished?

- ☐ Student work assessed:
 - ☐ final exam short answer questions
 - ☐ Calculations on assignments and exams
 - ☐ Oral presentations
 - ☐ Written reports
 - ☐ projects
- ☐ Grades reviewed for outcome 5
- ☐ Surveys of employers needed



SLO 1 - Communication (written and oral)

1	Construction Technology: Management Program							
2								
3	SLO 1.1 - Written Communication: Student can prepare understandable written lab investigations, reports, etc.							
4								
5		Measures	Not Met		Met		Exceeded	
6		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
7	All Courses	2	0	0%	1	50%	1	50%
8								
9	ACCT 104	1	0	0%	0	0%	1	100%
10	CONS 112	1	0	0%	1	100%	0	0%
11								



SLO 1 - Communication (written and oral)

1	SLO 1.2 - Oral Communication: Student has demonstrated through presentations an ability							
2	to present ideas to an audience effectively.							
3								
4		Measures	Not Met		Met		Exceeded	
5		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
6	All Courses							
7								
8	No Measures							
9								

- Email ha been sent and replied to concerning the lack of data. Outcome change in the works.



SLO 2. Applies Math to Solve problems

20	SLO 2.1 - Has demonstrated fundamental understanding of Math principles.									
21										
22		Measures		Not Met		Met		Exceeded		
23		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>		
24	All Courses	2	0	0%	0	0%	2	100%		
25										
26	PHYS 115	2	0	0%	0	0%	2	100%		
27										
28	SLO 2.2 - Applies math in the context of construction related work.									
29										
30		Measures		Not Met		Met		Exceeded		No Findings
31		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
32	All Courses	11	4	36%	2	18%	4	36%	1	9%
33										
34	CONS 101	9	4	44%	1	11%	4	44%	0	0%
35	CONS 112	2	0	0%	1	50%	0	0%	1	50%
36										

This is an excerpt of the report from taskstream.



SLO 3. Uses computer applications:

SLO 3.1 - Uses Email, internet, MS Word effectively in communication.

	Measures		Not Met		Met		Exceeded	
	<u>N</u>		<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
All Courses								
No Measures								

SLO 3.2 - Uses Excel effectively for repetitive calculations and graphing.

	Measures		Not Met		Met		Exceeded	
	N		N	%	N	%	N	%
All Courses	1		0	0%	1	100%	0	0%
CONS 222	1		0	0%	1	100%	0	0%



SLO 3. Uses computer applications:

SLO 3.3 - Able to use a cadd software to create and modify drawings.

	Measures		Not Met		Met		Exceeded	
	<u>N</u>		<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
All Courses								
No Measures								



SLO 4. knowledge of industry materials and methods

60										
61	SLO 4.1 - Student recognizes terms and incorporates lingo in written and spoken academic activities.									
62										
63		Measures	Not Met		Met		Exceeded			
64		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>		
65	All Courses	7	2	29%	2	29%	3	43%		
66										
67	CONS 112	7	2	29%	2	29%	3	43%		
68										



SLO 4. knowledge of industry materials and methods

SLO 4.2 - Students is familiar with commonly used construction materials and their imp properties.

	Measures	Not Met		Met		Exceeded	
	<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
All Courses	4	2	50%	0	0%	2	50%
CONS 112	4	2	50%	0	0%	2	50%

SLO 4.3 - Student has demonstrated an understanding with methods used in site develop and building construction.

	Measures	Not Met		Met		Exceeded	
	<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
All Courses	2	0	0%	1	50%	1	50%
CONS 112	2	0	0%	1	50%	1	50%

SLO 5 Business Fundamentals

5	SLO 5.1 - The graduate has demonstrated a reasonable grasp of business fundamentals.									
6										
7		Measures	Not Met		Met		Exceeded		No Findings	
8		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
9	All Courses	19	3	16%	7	37%	4	21%	5	26%
0										
1	ACCT 104	4	1	25%	0	0%	3	75%	0	0%
2	BSAD 100	15	2	13%	7	47%	1	7%	5	33%
3										



SLO 5 Business Fundamentals (from last year)

Evaluation based on cumulative GPA of the student in the business and accounting classes taken.

- Target 75% have cumulative GPA >2.5
- Current advisees : 7/8 (85%) meet target (average GPA is 3.11)
- Total students on advisee list since 2014: 24/32 (75%) meet target
- And recent graduates 2014 and 2015: 13 of 14 (91%) meet target (avg GPA = 3.4)



SLO 6 (New) Professional Attributes

94	SLO 6.1 - Is able to navigate through a set of prints to obtain information quickly.							
95								
96		Measures	Not Met		Met		Exceeded	
97		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
98	All Courses	1	0	0%	1	100%	0	0%
99								
100	CONS 222	1	0	0%	1	100%	0	0%
101								
102	SLO 6.2 - Is able to perform a quantity takeoff and extension.							
103								
104		Measures	Not Met		Met		Exceeded	
105		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
106	All Courses	5	1	20%	4	80%	0	0%
107								
108	CONS 222	5	1	20%	4	80%	0	0%
109								
110	SLO 6.3 - Is able to interpret and develop a cpm based project schedule.							
111								
112		Measures	Not Met		Met		Exceeded	
113		<u>N</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>
114	All Courses							
115								
116	Not Mapped							
117								



Assessment results: What have the data told us?

Improvement over last year, but much information is lacking and requires more in depth study of posted report results..

Revisiting program outcomes. (Did that: loop closed)

Surveys are required. (Still not done)



Data-driven decisions: How the department has or plans to “close the loop” based on these results. OR Given these findings, what will the program do differently?

1. Options to clarify the assessment of SLO 5

1. re-write so that it is measureable
2. Introduce a construction-specific element to one of the business courses (this has been discussed)
3. Eliminate it.



What resources were used or have been requested to close the loop?

- Operational goal, replace Mr. B, has been resolved with the hiring of Mr. Reiter.
- We have not, as yet, identified any shortcomings in SLOs that would stimulate request for funds.
- Our biggest issue is low enrollment. Perhaps funding of recruitment efforts could stimulate enrollment???

