SUNY CANTON

Information Technology Program
Canino School of Engineering Technology
Fall 2015 Assessment Report

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What was assessed? Student learning outcomes list:

- *SLO 1 – Communicate*
  - *Communicate clearly, concisely, and correctly in the written, spoken, visual, and electronic form that fulfills the purpose and meets the needs of audiences*
- *SLO 2 – Documents & Information*
  - *Interpret, produce, and present work-related documents & information effectively and accurately*
- *SLO 3 – Tools*
  - *Use a variety of computer hardware and software and other technological tools apprpriate and necessary for the performance of tasks*
- *SLO 4 - Interaction*
  - *Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals*

What was assessed? Student learning outcomes list: (cont.)

- *SLO 5 – Analyze & Resolve Problems*
  - *Analyze and resolve information technology related problems through the application of systematic approaches*

- *SLO 6 – Adapt to New Situations*
  - *Adapt to new situations and demands by applying and/or updating his/her knowledge and skills*

- *SLO 7 – Concentration Knowledge & Skills*
  - *Master essential knowledge and skills within a designated concentration area*

Where were outcomes assessed?

- *SLO 1 - Communicate*
  - *CITA 163, ENGL 102, CITA 204, SOET 361, CITA 460, SOET 477, CITA 480*

- *SLO 2 - Documents & Information*
  - *CITA 204, SOET 361, CITA 460, SOET 477, CITA 480*

- *SLO 3 - Tools*
  - *CITA 170, CITA 171, CITA 180, CITA 215, CITA 220, CITA 221, CITA 250, CITA 310, CITA 330, CITA 460, SOET 477, CITA 480*

- *SLO 4 - Interaction*
  - *CITA 163, CITA 204, SOET 361, CITA 460, SOET 477, CITA 480*

- *SLO 5 - Analyze & Resolve Problems*
  - *CITA 204, CITA 250, SOET 361, CITA 460, SOET 477, CITA 480*

- *SLO 6 - Adapt to New Situations*
  - *CITA 204, SOET 361, CITA 330, SOET 477, CITA 480*

- *SLO 7 - Concentration Knowledge & Skills*
  - *Program Electives*

How was the assessment accomplished?

- Student work assessed:
  - Quizzes
  - Midterm and final exams
  - Hands-On Labs
  - Oral presentations
  - Term papers
  - Group projects

- Measurement strategy:
  - % of questions answered correctly on quizzes and midterm/final exams
  - rubrics used for hands-on labs, oral presentations, term papers and group projects

- Sample size:
  - All students

SLO 1 - *Communicate*
Assessment Findings Data

SLO 1 - Communicate clearly, concisely, and correctly in the written, spoken, visual, and electronic form that fulfills the purpose and meets the needs of audiences.									
	Measures	**Not Met**		**Met**		**Exceeded**			
	N	**N**	**%**	**N**	**%**	**N**	**%**		
All Courses	**21**	**2**	**10%**	**6**	**29%**	**13**	**62%**		
CITA 163	3	0	0%	1	33%	2	67%		
CITA 480	2	0	0%	0	0%	2	100%		
ENGL 102	13	1	8%	4	31%	8	62%		
SOET 477	3	1	33%	1	33%	1	33%		

SLO 2 - *Documents & Information* Assessment Findings Data

SLO 2 - Interpret, produce, and present work-related documents & information effectively and accurately.									
	Measures	**Not Met**		**Met**		**Exceeded**			
	N	**N**	**%**	**N**	**%**	**N**	**%**		
All Courses	**4**	**1**	**25%**	**1**	**25%**	**2**	**50%**		
CITA 480	1	0	0%	0	0%	1	100%		
SOET 477	3	1	33%	1	33%	1	33%		

SLO 3 - *Tools*
Assessment Findings Data

SLO 3 - Use a variety of computer hardware and software and other technological tools apprpriate and necessary for the performance of tasks.									
	Measures	**Not Met**		**Met**		**Exceeded**		**No Findings**	
	N	**N**	**%**	**N**	**%**	**N**	**%**	**N**	**%**
All Courses	**110**	**17**	**15%**	**17**	**15%**	**32**	**29%**	**44**	**40%**
CITA 170	13	0	0%	0	0%	0	0%	13	100%
CITA 171	28	16	57%	4	14%	8	29%	0	0%
CITA 180	20	0	0%	0	0%	0	0%	20	100%
CITA 215	9	0	0%	0	0%	0	0%	9	100%
CITA 220	24	0	0%	8	33%	16	67%	0	0%
CITA 221	2	0	0%	0	0%	2	100%	0	0%
CITA 310	2	0	0%	1	50%	1	50%	0	0%
CITA 460	8	1	13%	3	38%	2	25%	2	25%
CITA 480	No Measures, No Findings								
SOET 477	4	0	0%	1	25%	3	75%	0	0%

SLO 4 - *Interaction*
Assessment Findings Data

SLO 4 - Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.									
	Measures	**Not Met**		**Met**		**Exceeded**			
	N	**N**	**%**	**N**	**%**	**N**	**%**		
All Courses	**1**	**0**	**0%**	**0**	**0%**	**1**	**100%**		
CITA 480	1	0	0%	0	0%	1	100%		

SLO 5 - *Analyze & Resolve Problems*
Assessment Findings Data

SLO 5 - Analyze and resolve information technology related problems through the application of systematic approaches.									
	Measures	**Not Met**		**Met**		**Exceeded**		**No Findings**	
	N	**N**	**%**	**N**	**%**	**N**	**%**	**N**	**%**
All Courses	**7**	**0**	**0%**	**2**	**29%**	**4**	**57%**	**1**	**14%**
CITA 460	5	0	0%	2	40%	2	40%	1	20%
CITA 480	1	0	0%	0	0%	1	100%	0	0%
SOET 477	1	0	0%	0	0%	1	100%	0	0%

SLO 6 - *Adapt to New Situations*
Assessment Findings Data

SLO 6 - Adapt to new situations and demands by applying and/or updating his/her knowledge and skills.									
	Measures	**Not Met**		**Met**		**Exceeded**			
	N	**N**	**%**	**N**	**%**	**N**	**%**		
All Courses	**2**	**0**	**0%**	**1**	**50%**	**1**	**50%**		
CITA 480	No Measures, No Findings								
SOET 477	2	0	0%	1	50%	1	50%		

SLO 7 - *Concentration Knowledge & Skills*
Assessment Findings Data

SLO 7 - Master essential knowledge and skills within a designated concentration area.									
	Measures	**Not Met**		**Met**		**Exceeded**			
	N	**N**	**%**	**N**	**%**	**N**	**%**		
All Courses	**6**	**0**	**0%**	**0**	**0%**	**6**	**100%**		
CITA 342	No Measures, No Findings								
CITA 360	Not Taught in Fall 2015								
CITA 420	6	0	0%	0	0%	6	100%		

Assessment results: What have the data told us?

- *SLO 1 - Communicate*

  Almost all students did well in related courses. Only one measure each failed to meet the SLO in either lower-division or upper-division courses.

- *SLO 2 - Documents & Information*

  Almost all students did well in related courses. Only one measure failed to meet the SLO.

- *SLO 3 - Tools*

  57% of measures in CITA 171 Operating Systems Use and Administration course failed to meet the SLO, however students performed well in almost all other courses. CITA 171 is heavily relying on the hands-on lab support in NN 128. This indicates that we need to significantly improve NN 128 lab by implementing an independent subdomain (sandbox).

- *SLO 4 - Interaction*

  All students did well in related courses.

Assessment results: What have the data told us? (cont.)

- *SLO 5 - Analyze & Resolve Problems*

  All students did well in related courses.

- *SLO 6 - Adapt to New Situations*

  All students did well in related courses.

- *SLO 7 - Concentration Knowledge & Skills*

  All students did well in related courses.

Data-driven decisions: How the program has or plans to "close the loop" based on these results.

- Revise the related courses including the course outlines to better align with the student learning outcomes

- Improve lab support (e.g., independent subdomain, state-of-the-art hardware/software, etc.)

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

- Individual faculty time revising within a course

- Program and department faculty time making revisions spanning more than one course or adjusting the curriculum

- Independent subdomain (sandbox) request already made to the administration