ENGINEERING SCIENCE Canino School of Engineering Technology 2019Assessment Report

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SUNY CANTON

Mission

The Canino School of Engineering Technology (CSOET) at SUNY Canton is committed to providing an educational experience that prepares students for a career in a technologically oriented society. The curricula are focused on providing career skills reviewed by industry partners and accreditation agencies. Our programs provide opportunities for every student to find a suitable starting point for their academic endeavor. Graduates have the ability to work in teams, think critically, utilize the tools of their trade or industry, and communicate effectively.

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Program mission:

Provide students with preparation in engineering fundamentals to enable them to enroll in baccalaureate degree in engineering or engineering technology with junior status, and successfully complete their baccalaureate degree.

Program outcomes (PO):

1- 60% of admitted students will graduate w/AS degree
2- 85% of graduates will enroll in BS/BT Eng. Programs
3- 90% of transfer graduates will affirm that their
preparation in Eng. Sci. has been adequate.

What was assessed? Student learning outcomes list:

- PSLO #1 (ISLO #3) Have solid foundation in math & science (ABET 1)
- PSLO #2 (ISLO #5) Have understanding & knowledge of common engineering courses (ABET 2, 5, 6)
- PSLO #3 (ISLO #1) Develop communication skill (ABET 3)
- PSLO #4 (ISLO #2) Critical Thinking (ABET 7)

Where were outcomes assessed?

PSLO #1 (ISLO #3) Have solid foundation in math & science (GER 1 & 2)

CHEM 150	CHEM 155	MATH 161	PHYS 131 PHYS 135
MATH 162	MATH 263	MATH 364	PHYS 132 PHYS 136

PSLO #2 (ISLO 5)- Professional CompetenceENGS 201ENGS 202ENGS 205ENGS 263/264

PSLO #3 (ISLO 1)- Develop Communication Skills

ENGL 101 ENGS 101 ENGS 102

PSLO #4 (ISLO 2)- Critical Thinking

ECON 103 (GER 3)

ENGS 263

How was the assessment accomplished?

- Student work assessed:
 - Quizzes
 - Midterm and final exams
 - Oral presentations
 - Group projects
 - Term papers
- Measurement strategy:
 - Applicable rubrics used for oral presentations, term papers and group projects
 - % of questions answered correctly on quizzes and midterm/final exams
- Sample size:
 - All students who take the designated assessed courses, see attachment for N for each course

Program assessment results:

- 2014: n=9/10; 8 RS **1RT** PO1=90% met
- 2015: n=8/10; PO1=80% met
- 2016: n=8/9; 5 PO1=89% met
- 2017: n=3/5; PO1=60% met
- 2018: n=7/11; PO1=64% met

	8 B2	TRI		
	PO2 =10	n %00	net	PO3 = met
	6 BS	-	2 BT	
	PO2 =100% met			PO3 = met
	5 BS	-	2 BT	1?
	PO2 =88% met			PO3 = met
2 BS, 1 Transfer SUN			er SUNY	P. math.
PO2 =100% met				PO3 = met
	5 BS		2 BT	1 will grad. 5/2019
PO2 =100% met			PO3= met	

• 2019: n=7/10;	6 BS	1 BT
PO1=70% met	PO2 =100% met	PO3= met



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

- The program became more aligned with PSLOs since the changes made in 2017 (effective F2018).
- Continue to revise the related courses to better align with the PSLOs.

ENROLLMENT (as previous years)? PHYSICS courses (Must cover more materials) Advanced Math courses (Bring the standards Hi) What resources were used or have been requested to close the loop?

Program needs more students. Many empty sits.

Resources:

Additional 2+2 agreements with RPI, Cornell University, Georgia Tech Exposure & Publicity

Merit Scholarships

