Associate in Science in Technology

Program / Student Learning Outcomes: What Will I Learn?

Select an outcome statement to see the related measures and results.

Graduates of the Associate of Science in Technology will be able to:

1. Demonstrate effective oral and written communication skills.
2. Apply observation and measurement skills to develop quantitative expressions of natural science phenomena.
3. Apply algebra, trigonometry, or higher order mathematics to solve technology-related problems.
4. Demonstrate introductory college-level proficiency in one or more of the social sciences.
5. Demonstrate a comprehension of diverse cultural heritage, interpersonal relationships, the relationship between technology and society, and personal values to make intelligent and discerning judgments.
6. Demonstrate a proficiency in computer applications used in technology areas.

Assessment Methodology

Metrics, Assessments, and Levels of Achievement

The table below provides a brief overview of the measures selected to assess program outcomes for the Associate of Science in Technology program. Assessment of program outcomes includes both direct and indirect measures. Benchmarks have been established to differentiate between three levels of program outcome achievement (highly achieved, meets standard, and needs improvement). These three levels of achievement are color coded and used in the section below to indicate the level of achievement for each measure, for each learning outcome.

Metric Type	**Direct Measures**	**Indirect Measures**	
Assessments	Capstone Course	Exit Alumni Survey	One-Year Post-graduation Alumni Survey
Metrics	The percentage of the TECH 295 students who receive a grade of 2 (out of 3) or higher on the Capstone Rubric for its designated program outcome.	The mean of the graduates' perceptions of their achievement of the related program outcomes (on a 6-pt Likert-type scale).	The mean of the graduates' perceptions of their achievement of the related program outcomes (on a 6-pt Likert-type scale).
Highly Achieved	≥ 85%	Mean ≥ 5%	
Meets Standard	70 - 84%	4.0 - 4.99	
Needs Improvement	< 70%	Mean < 4	

Note: The results of the one year post-graduation survey are used as a reference to provide a longitudinal perspective on students' attainment of program (student) outcomes.

Key:

Result
N

Program Outcome Achievement Results

May 2015 Term to March 2016 Term

Program / Student Learning Outcome 1

Demonstrate effective oral and written communication skills.

Direct Measure		Indirect Measure	
TECH295 Integrated Technology Assessment	100% n = 20	Exit Survey	5.14* n = 7
		One-Year Survey	** n = 4

Program / Student Learning Outcome 2

Apply observation and measurement skills to develop quantitative expressions of natural science phenomena.

Direct Measure		Indirect Measure	
TECH295 Integrated Technology Assessment	100% n = 20	Exit Survey	5.00* n = 7
		One-Year Survey	** n = 4

Program / Student Learning Outcome 3

Apply algebra, trigonometry, and higher order mathematics to solve technology-related problems.

Direct Measure		Indirect Measure	
TECH295 Integrated Technology Assessment	90%	Exit Survey	4.86*

	n = 20		n = 7
		One-Year Survey	**
			n = 4

Program / Student Learning Outcome 4

Demonstrate introductory college-level proficiency in one or more of the social sciences.

Direct Measure		Indirect Measure	
TECH295 Integrated Technology Assessment	95%	Exit Survey	5.00*
	n = 21		n = 7
		One-Year Survey	**
			n = 4

Program / Student Learning Outcomes 5

Demonstrate a comprehension of diverse cultural heritage, interpersonal relationships, the relationship between technology and society, and personal values to make intelligent and discerning judgments.

Direct Measure		Indirect Measure	
TECH295 Integrated Technology Assessment	100%	Exit Survey	4.86*
	n = 21		n = 7
		One-Year Survey	**
			n = 4

Program / Student Learning Outcomes 6

Demonstrate a proficiency in computer applications used in technology areas.

Direct Measure		Indirect Measure	
TECH295 Integrated Technology Assessment	100%	Exit Survey	5.29*
	n = 20		n = 7
		One-Year Survey	**
			n = 4

**There were not enough responses to the Exit Survey during FY2016 (need a minimum of 5 responses), data reflects responses between 2012-2016.

**There were not enough responses to the one-year postgraduate survey to produce a report (need at least 5 responses).