Bachelor of 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 BS in Technology will be able to:

1. Demonstrate the ability to understand and use quantitative expressions in the natural sciences.
2. Demonstrate the application of algebra and higher mathematics to problem solving in technology areas.
3. Demonstrate proficiency in oral and written communications.
4. Demonstrate an ability to understand professional, ethical, and social responsibilities, including the impacts of culture, diversity, and interpersonal relations.
5. Demonstrate computer usage in the concentration area, including technical problem solving in the global environment.
6. Demonstrate the ability to identify, analyze, and solve problems in the area of focus.

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 Bachelor of Science in Technology program. Assessment of program/student 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 Measure**	**Indirect Measures**	
Assessments	Capstone Course	Exit Alumni Survey	One-Year Post-graduation Alumni Survey
Metrics	The percentage of the TECH 495 students who receive a grade of 2 (out of 3) or higher on the Capstone Rubric for the 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/Student Outcome Achievement Results

May 2015 Term to March 2016 Term

Program / Student Learning Outcome 1

Demonstrate the ability to understand and use quantitative expressions in the natural sciences.

Direct Measure		Indirect Measure	
Capstone Rubric TECH 495 Integrated Technology Assessment	100%	Exit Survey	5.57
	n = 28		n = 7
		One-Year Survey	5.80
			n = 5

Program / Student Learning Outcome 2

Demonstrate the application of algebra and higher mathematics to problem solving in technology areas.

Direct Measure		Indirect Measure	
Capstone Rubric TECH 495 Integrated Technology Assessment	100%	Exit Survey	5.57
	n = 28		n = 7
		One-Year Survey	5.80
			n = 5

Program / Student Learning Outcome 3

Demonstrate proficiency in oral and written communications.

Direct Measure		Indirect Measure	
	100%	Exit Survey	5.57

Capstone Rubric TECH 495 Integrated Technology Assessment	n = 28		n = 7
		One-Year Survey	6.00
			n = 5

Program / Student Learning Outcome 4

Demonstrate an ability to understand professional, ethical, and social responsibilities, including the impacts of culture, diversity, and interpersonal relations.

Direct Measure		Indirect Measure	
Capstone Rubric TECH 495 Integrated Technology Assessment	100%	Exit Survey	5.57
	n = 28		n = 7
		One-Year Survey	6.00
			n = 5

Program / Student Learning Outcome 5

Demonstrate computer usage in the concentration area, including technical problem solving in the global environment.

Direct Measure		Indirect Measure	
Capstone Rubric TECH 495 Integrated Technology Assessment	100%	Exit Survey	5.57
	n = 28		n = 7
		One-Year Survey	6.00
			n = 5

Program / Student Learning Outcome 6

Demonstrate the ability to identify, analyze, and solve problems in the area of focus.

Direct Measure		Indirect Measure	
Capstone Rubric TECH 495 Integrated Technology Assessment	100%	Exit Survey	5.43
	n = 28		n = 7
		One-Year Survey	6.00
			n = 5