



THE MASTER'S
UNIVERSITY

AEFIS Direct Assessment Summary Report

For the **BA in Mathematics** Program

for the Fall 2017 – Spring 2019 Terms

Including Program-level Learning Outcome Data for:

BA in Mathematics – Core

BA in Mathematics – Applied Mathematics

BA in Mathematics – Mathematics Education

BA in Mathematics – Pure Mathematics



Report Parameters

Program: **TMU BA in Mathematics - Core**
 Term: **2019 Spring TMU Trad, 2018 Summer TMU Trad and 3 more...**
 Detail Level: **Learning Indicator**
 Athletic Status: **No records found!**
[Edit Report Parameters](#)

Direct Assessment Summary Report

Export ?

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BA.MATH.01	Demonstrate mastery of Calculus.			
U.BA.MATH.1.PI01	Student percentage scores on the final course exam.	5		40 %
U.BA.MATH.1.PI02	ETS MFT Mathematics – Calculus Assessment Indicator Percentile score	5		100 %
Average Student Performance Level across all PIs for this PLO.		10		70 %
U.BA.MATH.02	Demonstrate mastery of Elementary Linear Algebra.			
U.BA.MATH.2.PI01	Student percentage scores on the final course exam.	6		83 %
U.BA.MATH.2.PI02	ETS MFT Mathematics – Algebra Assessment Indicator Percentile score	5		60 %
Average Student Performance Level across all PIs for this PLO.		11		73 %
U.BA.MATH.03	Demonstrate mastery of Elementary Differential Equations.			
U.BA.MATH.3.PI01	Student percentage scores on the final course exam.	4		50 %
Average Student Performance Level across all PIs for this PLO.		4		50 %
U.BA.MATH.04	Effectively prepare written and give oral presentations from research literature in mathematics.			
U.BA.MATH.4.PI01	Clarity of the presentation.	8		100 %

U.BA.MATH.4.PI02	PowerPoint well designed & uses appropriate visuals.	8		100 %
U.BA.MATH.4.PI03	Appropriate amount of information for time available.	8		100 %
U.BA.MATH.4.PI04	Level of mathematics content is appropriate for the audience.	8		100 %
Average Student Performance Level across all PIs for this PLO.		32		100 %
Average Student Performance Level across all PLOs in this Program.		57		86 %



Report Parameters

Program: **TMU BA in Mathematics - Applied Mathematics**
 Term: **2019 Spring TMU Trad, 2018 Summer TMU Trad and 3 more...**
 Detail Level: **Learning Indicator**
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Direct Assessment Summary Report

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PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BA.MATH.APP.02	Use probability and statistical inferences to draw conclusions.			
U.BA.MATH.APP.2.PI03	Includes well-stated hypotheses.	26		81 %
U.BA.MATH.APP.2.PI04	Appropriate statistical tests are applied.	26		81 %
U.BA.MATH.APP.2.PI01	Student percentage scores on the final course exam.	26		81 %
Average Student Performance Level across all PIs for this PLO.		78		81 %
U.BA.MATH.APP.03	Demonstrate a basic working knowledge of the concepts and methods of applied mathematics especially through the use of computational tools.			
U.BA.MATH.APP.3.PI01	Student's report effectively demonstrates how to use and implement (in Matlab) discrete mathematical techniques to solve a real-world problem	4		100 %
U.BA.MATH.APP.3.PI02	Student's report effectively demonstrates how to use and implement (in Matlab) discrete and continuous mathematical techniques to solve a real-world problem	4		75 %
Average Student Performance Level across all PIs for this PLO.		8		88 %
U.BA.MATH.APP.04	Demonstrate a working knowledge of mathematical applications in a variety of applied fields.			
U.BA.MATH.APP.4.PI01	Student percentage scores on the final course exam.	9		78 %
Average Student Performance Level across all PIs for this PLO.		9		78 %
U.BA.MATH.APP.05	Demonstrate mastery of the various methods of discrete mathematics.			

U.BA.MATH.APP.5.PI01	Student percentage scores on the final course exam.	14		100 %
Average Student Performance Level across all PIs for this PLO.		14		100 %
U.BA.MATH.APP.06	Demonstrate a basic working knowledge of the properties of complex numbers and complex-valued functions.			
U.BA.MATH.APP.6.PI01	Student percentage scores on the final course exam.	3		100 %
Average Student Performance Level across all PIs for this PLO.		3		100 %
Average Student Performance Level across all PLOs in this Program.		112		84 %



Report Parameters

Program: **TMU BA in Mathematics - Mathematics Education**
 Term: **2019 Spring TMU Trad, 2018 Summer TMU Trad and 3 more...**
 Detail Level: **Learning Indicator**
 Athletic Status: **No records found!**
[Edit Report Parameters](#)

Direct Assessment Summary Report

Export ?

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BA.MATH.ED.01	Demonstrate a working knowledge of fundamental algebraic structures (groups and rings).			
U.BA.MATH.ED.1.PI01	Student percentage scores on the final course exam.	2		100 %
Average Student Performance Level across all PIs for this PLO.		2		100 %
U.BA.MATH.ED.03	Demonstrate a basic working knowledge of the nature and applications of discrete structures.			
U.BA.MATH.ED.3.PI01	Student percentage scores on the final course exam.	14		100 %
Average Student Performance Level across all PIs for this PLO.		14		100 %
U.BA.MATH.ED.04	Demonstrate a basic mastery of the principles of Euclidean and non-Euclidean geometries.			
U.BA.MATH.ED.4.PI01	Student percentage scores on the final course exam.	2		100 %
Average Student Performance Level across all PIs for this PLO.		2		100 %
Average Student Performance Level across all PLOs in this Program.		18		100 %



Report Parameters

Program: **TMU BA in Mathematics - Pure Mathematics**
 Term: **2019 Spring TMU Trad, 2018 Summer TMU Trad and 3 more...**
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 Athletic Status: **No records found!**
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Direct Assessment Summary Report

Export ?

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BA.MATH.PURE.01	Demonstrate a working knowledge of fundamental algebraic structures (groups and rings).			
U.BA.MATH.PURE.1.PI01	Student percentage scores on the final course exam.	2	0.0% 100.0% 0.0%	100 %
Average Student Performance Level across all PIs for this PLO.		2	0.0% 100.0% 0.0%	100 %
U.BA.MATH.PURE.04	Demonstrate a basic working knowledge of the properties of complex numbers and complex-valued functions.			
U.BA.MATH.PURE.4.PI01	Student percentage scores on the final course exam.	3	0.0% 100.0% 0.0%	100 %
Average Student Performance Level across all PIs for this PLO.		3	0.0% 100.0% 0.0%	100 %
Average Student Performance Level across all PLOs in this Program.		5	0.0% 100.0% 0.0%	100 %