



# The Master's University & Seminary

## Direct Assessment Summary Report

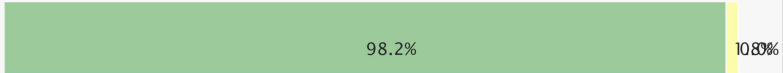

### Report Parameters

Program: **TMU BS in Biological & Physical Sciences - Animal Sciences/Pre-Veterinary Medicine**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.ASVM.01	Analyze an ecosystem to identify relationships among organisms and that environment.	111	 <p>98.2% 10.83%</p>	100 %
Average Student Performance Level across all PLOs in this Program.		111	 <p>98.2% 10.83%</p>	100 %



# The Master's University & Seminary

Direct Assessment Summary Report

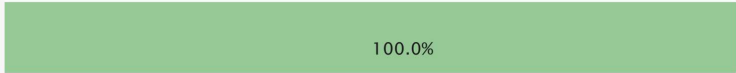

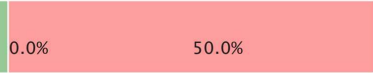
## Report Parameters

Program: **TMU BS in Biological & Physical Sciences - Cellular & Molecular Biology**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.CELL.01	Apply the principles of molecular processes to analyze and interpret scientific data.	4		100 %
U.BS.BIO.CELL.02	Integrate thermodynamics and biochemical pathways to describe metabolism.	34		44 %
Average Student Performance Level across all PLOs in this Program.		38		50 %





# The Master's University & Seminary

## Direct Assessment Summary Report

### Report Parameters

Program: **TMU BS in Biological Sciences - Core**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.02	Employ a knowledge of cell structure and function to analyze and interpret scientific data.	18		28 %
U.BS.BIO.03	Apply taxonomy, phylogeny, and diversification of living organisms to analyze and interpret scientific data.	115		91 %
U.BS.BIO.04	Apply the principles of inheritance, and use genomes to compare organisms and diagnose disease.	18		44 %

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.05	Integrate Scripture and science to explain God's revealed Truth.	128	<p>98.4% 0.6% 1.0%</p>	100 %
U.BS.BIO.06	Employ mathematical tools to analyze data and solve research questions. (BS Core only.)	130	<p>80.8% 14.6% 3.1% 1.5%</p>	95 %
Average Student Performance Level across all PLOs in this Program.		409	<p>81.4% 9.0% 3.9% 5.6%</p>	90 %



# The Master's University & Seminary

## Direct Assessment Summary Report

### Report Parameters

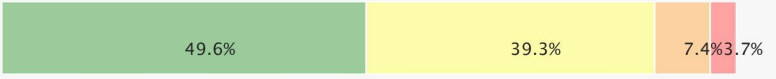



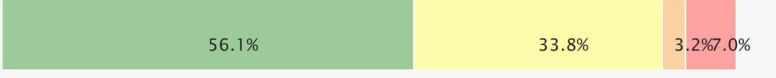
Program: **TMU Baccalaureate GE - Biological & Physical Sciences**


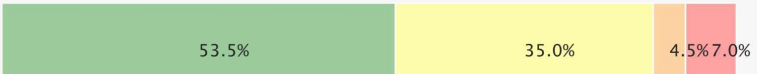


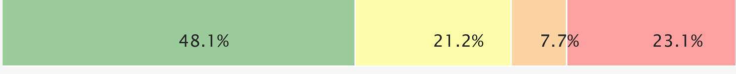
Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Learning Indicator**



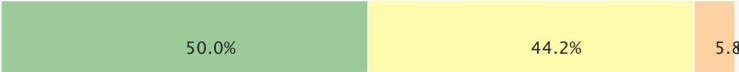


[Edit Report Parameters](#)






PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels				% at Mastery
U.GE.BPS.01	Explain the scientific method, its use and limitations within each of its various disciplines, and its relation to Truth.		<div style="border: 1px solid black; padding: 5px; font-size: small;">           1 - Unacceptable, Clearly Inadequate: 2            2 - Basic, Weak, Barely at Threshold :4            3 - Proficient, Clearly Adequate : 71            4 - Strong, Exemplary:59         </div>				
U.GE.BPS.1.PI01	Individual student % score on first course exam.	136	43.4%	52.2%	2.9%	96 %	
Average Student Performance Level across all PIs for this PLO.		136	43.4%	52.2%	2.9%	96 %	
U.GE.BPS.02	Demonstrate an understanding of how the glory of God is revealed through an increased understanding of the complexity and beauty of His creation.						
U.GE.BPS.2.PI01	Student comments evidence clarity of thought and written expression.	135	41.5%	39.3%	13.3%	5.9%	81 %

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.GE.BPS.2.PI02	Evidences an understanding of the concept of how beauty applies to the biological and physical sciences.	135		89 %
U.GE.BPS.2.PI03	Evidences an understanding of the concept of how complexity applies to the biological and physical sciences.	103		85 %
U.GE.BPS.2.PI04	Evidences an understanding of the revelation of God and demonstration of His glory are seen through the biological and physical sciences.	52		94 %
Average Student Performance Level across all PIs for this PLO.		425		86 %
U.GE.BPS.03	Compare and contrast the effect of various theocentric and naturalistic worldviews on the development of biological and physical sciences, and scientific thought in general.			
U.GE.BPS.3.PI01	Concepts presented in lectures and class texts are incorporated in the student's discussion statements.	157		90 %

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.GE.BPS.3.PI02	Quantity of comments indicates acceptable level of student engagement in the discussion.	157		91 %
U.GE.BPS.3.PI03	Student comments go beyond repetition of presented information. Includes application, analysis and synthesis of it.	157		89 %
U.GE.BPS.3.PI04	Student comments evidence clarity of thought and written expression.	157		92 %
Average Student Performance Level across all PIs for this PLO.		628		90 %
U.GE.BPS.04	Explain the use of the scientific process within the biological and physical sciences identifying foundational assumptions, processes for inquiry, establishment of conclusions, and application of those principles in the day-to-day happenings in the world.			
U.GE.BPS.4.PI01	The paper evidences a clarity of thought and written expression.	52		69 %



PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery										
U.GE.BPS.4.PI02	Demonstrates that the student has gained a better understanding of some aspect of the biological or physical world.	52	 <table border="1" data-bbox="639 575 1373 646"> <tr> <th>Performance Level</th> <th>Percentage</th> </tr> <tr> <td>Green</td> <td>65.4%</td> </tr> <tr> <td>Yellow</td> <td>11.5%</td> </tr> <tr> <td>Orange</td> <td>15.4%</td> </tr> <tr> <td>Red</td> <td>7.7%</td> </tr> </table>	Performance Level	Percentage	Green	65.4%	Yellow	11.5%	Orange	15.4%	Red	7.7%	77 %
Performance Level	Percentage													
Green	65.4%													
Yellow	11.5%													
Orange	15.4%													
Red	7.7%													
U.GE.BPS.4.PI03	Demonstrates an understanding of the elements of the scientific process.	52	 <table border="1" data-bbox="639 743 1373 814"> <tr> <th>Performance Level</th> <th>Percentage</th> </tr> <tr> <td>Green</td> <td>63.5%</td> </tr> <tr> <td>Yellow</td> <td>13.5%</td> </tr> <tr> <td>Orange</td> <td>23.1%</td> </tr> <tr> <td>Red</td> <td>0.0%</td> </tr> </table>	Performance Level	Percentage	Green	63.5%	Yellow	13.5%	Orange	23.1%	Red	0.0%	77 %
Performance Level	Percentage													
Green	63.5%													
Yellow	13.5%													
Orange	23.1%													
Red	0.0%													
U.GE.BPS.4.PI04	Demonstrates the ability to be a productive member of a working group.	52	 <table border="1" data-bbox="639 911 1373 982"> <tr> <th>Performance Level</th> <th>Percentage</th> </tr> <tr> <td>Green</td> <td>50.0%</td> </tr> <tr> <td>Yellow</td> <td>44.2%</td> </tr> <tr> <td>Orange</td> <td>5.8%</td> </tr> <tr> <td>Red</td> <td>0.0%</td> </tr> </table>	Performance Level	Percentage	Green	50.0%	Yellow	44.2%	Orange	5.8%	Red	0.0%	94 %
Performance Level	Percentage													
Green	50.0%													
Yellow	44.2%													
Orange	5.8%													
Red	0.0%													
U.GE.BPS.4.PI05	The paper demonstrates that the student has actively collected and analyzed research data.	52	 <table border="1" data-bbox="639 1079 1373 1150"> <tr> <th>Performance Level</th> <th>Percentage</th> </tr> <tr> <td>Green</td> <td>63.5%</td> </tr> <tr> <td>Yellow</td> <td>9.6%</td> </tr> <tr> <td>Orange</td> <td>19.2%</td> </tr> <tr> <td>Red</td> <td>7.7%</td> </tr> </table>	Performance Level	Percentage	Green	63.5%	Yellow	9.6%	Orange	19.2%	Red	7.7%	73 %
Performance Level	Percentage													
Green	63.5%													
Yellow	9.6%													
Orange	19.2%													
Red	7.7%													
Average Student Performance Level across all PIs for this PLO.		260	 <table border="1" data-bbox="639 1247 1373 1318"> <tr> <th>Performance Level</th> <th>Percentage</th> </tr> <tr> <td>Green</td> <td>58.1%</td> </tr> <tr> <td>Yellow</td> <td>20.0%</td> </tr> <tr> <td>Orange</td> <td>14.2%</td> </tr> <tr> <td>Red</td> <td>7.7%</td> </tr> </table>	Performance Level	Percentage	Green	58.1%	Yellow	20.0%	Orange	14.2%	Red	7.7%	78 %
Performance Level	Percentage													
Green	58.1%													
Yellow	20.0%													
Orange	14.2%													
Red	7.7%													
U.GE.BPS.05	Demonstrate an ability to use the scientific process to solve qualitative and quantitative problems in biology in both the classroom and laboratory settings.													

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.GE.BPS.5.PI01	Demonstrates an understanding of the chemical building blocks of life.	27	 <p>81.5% 14.8% 0.3% 0.4%</p>	96 %
U.GE.BPS.5.PI02	Demonstrates an understanding of the complexity and order as seen throughout God's creation.	27	 <p>81.5% 14.8% 0.3% 0.4%</p>	96 %
U.GE.BPS.5.PI03	Demonstrates the ability to complete the hands-on processes involved in a laboratory setting.	27	 <p>81.5% 14.8% 0.3% 0.4%</p>	96 %
U.GE.BPS.5.PI04	Demonstrates the ability to interpret information collected through hands-on laboratory procedures.	27	 <p>81.5% 14.8% 0.3% 0.4%</p>	96 %
Average Student Performance Level across all PIs for this PLO.		108	 <p>81.5% 14.8% 0.3% 0.4%</p>	96 %
U.GE.BPS.06	Demonstrate the ability to perform the basic operations associated with standard laboratory procedures in the biological and physical sciences.			

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels			% at Mastery
U.GE.BPS.6.PI01	Demonstrates the ability to complete the hands-on processes involved in a laboratory setting.	27	74.1%	25.9%	0.0%	100 %
U.GE.BPS.6.PI02	Demonstrates the ability to interpret information collected through hands-on laboratory procedures.	27	74.1%	25.9%	0.0%	100 %
U.GE.BPS.6.PI03	Demonstrates the ability to construct and perform a step-by-step analytical procedure to solve a problem.	27	74.1%	25.9%	0.0%	100 %
Average Student Performance Level across all PIs for this PLO.		81	74.1%	25.9%	0.0%	100 %
Average Student Performance Level across all PLOs in this Program.		1638	55.7%	33.0%	6.0% 5.3%	89 %



# The Master's University & Seminary

Direct Assessment Summary Report

## Report Parameters

Program: **TMU BS in Biological & Physical Sciences - General**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.GNL.01	Analyze an ecosystem to identify relationships among organisms and that environment.	111	<p>98.2% 10.83%</p>	100 %
Average Student Performance Level across all PLOs in this Program.		111	<p>98.2% 10.83%</p>	100 %



# The Master's University & Seminary

## Direct Assessment Summary Report

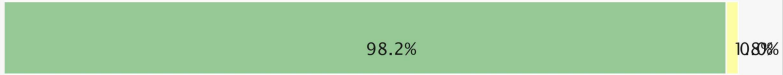

### Report Parameters

Program: **TMU BS in Biological & Physical Sciences - Natural History/Environmental Biology**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.ENVR.01	Analyze an ecosystem to identify relationships among organisms and that environment.	111	 <p>98.2% 10.8%</p>	100 %
Average Student Performance Level across all PLOs in this Program.		111	 <p>98.2% 10.8%</p>	100 %



# The Master's University & Seminary

## Direct Assessment Summary Report

### Report Parameters

Program: **TMU BS in Biological & Physical Sciences - Paleontology**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.PAL.01	Analyze an ecosystem to identify relationships among organisms and that environment.	111	<p>98.2% 1.8% 0%</p>	100 %
U.BS.BIO.PAL.02	Interpret earth history using the fossil record.	54	<p>85.2% 9.3% 5.6%</p>	94 %
Average Student Performance Level across all PLOs in this Program.		165	<p>93.9% 4.2% 1.9%</p>	98 %





# The Master's University & Seminary

## Direct Assessment Summary Report

### Report Parameters

Program: **TMU BS in Biological & Physical Sciences - Pre-Medical/Pre-Dentistry/Pre-Allied Health**

Term: **2021 Spring TMU Trad, 2020 Spring TMU Trad and 3 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.BIO.PMD.01	Analyze an ecosystem to identify relationships among organisms and that environment.	111	<p>98.2% 10.8% 0.0%</p>	100 %
U.BS.BIO.PMD.02	Integrate thermodynamics and biochemical pathways to describe metabolism.	34	<p>44.1% 0.0% 55.9%</p>	44 %
Average Student Performance Level across all PLOs in this Program.		145	<p>85.5% 10.4% 13.1%</p>	87 %







# The Master's University & Seminary

## Direct Assessment Summary Report

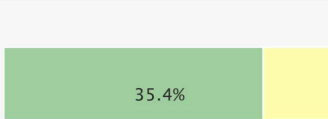
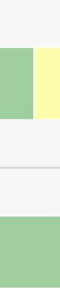
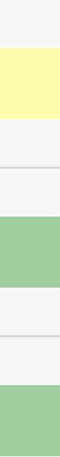
### Report Parameters





Program: **TMU Baccalaureate GE - Biological & Physical Sciences**

Term: **2021 Spring TMU OLP 2, 2021 Spring TMU OLP 1 and 12 more...**

Detail Level: **Outcome**

[Edit Report Parameters](#)

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery				
U.GE.BPS.01	Explain the scientific method, its use and limitations within each of its various disciplines, and its relation to Truth.	82	 <table border="1"><tr><td>35.4%</td><td>54.9%</td><td>7.3%</td><td>2.4%</td></tr></table>	35.4%	54.9%	7.3%	2.4%	90 %
35.4%	54.9%	7.3%	2.4%					
U.GE.BPS.02	Demonstrate an understanding of how the glory of God is revealed through an increased understanding of the complexity and beauty of His creation.	181	 <table border="1"><tr><td>82.3%</td><td>6.6%</td><td>4.4%</td><td>6.6%</td></tr></table>	82.3%	6.6%	4.4%	6.6%	89 %
82.3%	6.6%	4.4%	6.6%					
U.GE.BPS.03	Compare and contrast the effect of various theocentric and naturalistic worldviews on the development of biological and physical sciences, and scientific thought in general.	296	 <table border="1"><tr><td>63.9%</td><td>19.9%</td><td>6.8%</td><td>9.5%</td></tr></table>	63.9%	19.9%	6.8%	9.5%	84 %
63.9%	19.9%	6.8%	9.5%					

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.GE.BPS.04	Explain the use of the scientific process within the biological and physical sciences identifying foundational assumptions, processes for inquiry, establishment of conclusions, and application of those principles in the day-to-day happenings in the world.	291	 <p>76.3% 9.3% 2.4% 12.0%</p>	86 %
U.GE.BPS.05	Demonstrate an ability to use the scientific process to solve qualitative and quantitative problems in biology in both the classroom and laboratory settings.	128	 <p>73.4% 7.8% 18.8%</p>	81 %
U.GE.BPS.06	Demonstrate the ability to perform the basic operations associated with standard laboratory procedures in the biological and physical sciences.	99	 <p>43.4% 23.2% 9.1% 24.2%</p>	67 %
Average Student Performance Level across all PLOs in this Program.		1077	 <p>67.4% 16.3% 4.6% 11.6%</p>	84 %