

GBC Class/Course Assessment Report

MATH 126 Precalculus I

Section Number(s): 1003

Instructor: Jinho Jung

Number of Students in the class: 15

Academic Year: 2020-2021

Semester: Spring 2021

Complete and submit your assessment report electronically to your department chair. Course and general education outcomes are counted as achieved if 62% or more of students answered the problems associated with the outcome correctly. As needed, please attach supporting documents and/or a narrative description of the assessment activities. All the learning outcomes must be completed otherwise the assessment is considered as incomplete.

General Education Objectives	Class/Course Outcomes	Assessment Measures	Course Outcome Assessment Results	General Education Outcome Assessment Results	Outcome Results Analysis
	In the boxes below, summarize the outcomes assessed in your class or course during the last year. If this is a GenEd class, include the appropriate GenEd objectives.	In the boxes below, list the proctored assignments and which problems on those assignments you used to assess each outcome.	In the boxes below, give the percentage of students who answered the problems correctly and indicate if the course outcome was achieved.	In the boxes below, give the average of the percentages of students who met course learning outcomes and indicate if the general education outcome was achieved.	In the boxes below, please reflect on this outcome's results and summarize how you plan to use the results to improve student learning.
Demonstrate knowledge Of mathematical notation and concepts	Outcome #1: Solve a variety of equations including polynomial, exponential and logarithmic	Proctored assignment: Final Exam Problem numbers: #12, 13, 14	Results: Average percentage: 66.7% Criterion Met: <u>Yes/No</u>	Average percentage: 69.7% Criterion Met: <u>Yes/No</u>	1. Results Analysis: The criterion for the general education learning outcome, Demonstrating knowledge of Mathematical notation and concepts is met. However, students struggled in the course learning outcome #2, operating on functions. Students have hard time handling and understanding the concepts in the difference quotient Also, the class met the success criterion for the course learning outcome #4 in analyzing functions, this is another identified weakness. 2. Action Plan: I will
	Outcome #2: Operate on functions, including basic mathematical operations, composition and inversion	Proctored assignment: Final Exam Problem numbers: #3, 4, 5	Results: Average percentage: 46.7% Criterion Met: <u>Yes/No</u>		

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	<p>Outcome #3: Use the properties of logarithms</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers: #15</p>	<p>Results:</p> <p>Average percentage: 73%</p> <p>Criterion Met: <u>Yes/No</u></p>	<p>recommend the department to push better tutoring method such as the "TutorMe" service instead of Smarthinking. More exercise for this portion of the materials will be done in the future classes in class and in homework assignments.</p>
	<p>Outcome #4: Analyze functions by finding roots turning points, and asymptotes</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers: #7, 8, 9</p>	<p>Results:</p> <p>Average percentage: 62.3 %</p> <p>Criterion Met: <u>Yes/No</u></p>	
	<p>Outcome #5: Solving nonlinear inequalities</p>	<p>Proctored assignment: Midterm Exam</p> <p>Problem numbers: #16</p>	<p>Results:</p> <p>Average percentage: 93.8 %</p> <p>Criterion Met: <u>Yes/No</u></p>	
	<p>Outcome #6: Find the partial fraction decomposition of a rational expression</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers: NA</p>	<p>Results: NA</p> <p>Average percentage: NA</p> <p>Criterion Met: Yes/No</p>	

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	<p>Outcome #7: Manipulate complex numbers and understand their relationship to the solutions of polynomial and rational equations</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers: #6</p>	<p>Results:</p> <p>Average percentage: 70%</p> <p>Criterion Met: <u>Yes/No</u></p>		
	<p>Outcome #8: Solve systems of equations using various methods including elimination, matrices, and determinants</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers:#21, 22, 23</p>	<p>Results:</p> <p>Average percentage: 75.7%</p> <p>Criterion Met: <u>Yes/No</u></p>		
<p>Apply mathematical concepts and operations in proper written or graphical format</p>	<p>Outcome #9: Graph a variety of functions including logarithmic, polynomial, rational, and exponential functions</p>	<p>Proctored assignment: Graphing Exam</p> <p>Problem numbers: #21, 22, 23</p>	<p>Results: Average percentage: 75.7%</p> <p>Criterion Met: <u>Yes/No</u></p>	<p>Average percentage:66.8%</p> <p>Criterion Met: <u>Yes/No</u></p>	<p>1. Results Analysis: The class met the criterion for the general education learning outcome, however, the class success criterion was not met in the course learning outcome #11 showing only on average 54.8% of the class got correct answers.</p> <p>2. Action Plan: Again, I would recommend the better tutoring service.</p>
	<p>Outcome #10: Identify, obtain, and graph the equations of circles and parabolas</p>	<p>Proctored assignment: Graphing Exam</p> <p>Problem numbers: #1, 2</p>	<p>Results: Average percentage: 70%</p> <p>Criterion Met: <u>Yes/No</u></p>		

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	Outcome #11: Demonstrate the appropriate mathematical format and notation in solving problems	Proctored assignment: Graphing Exam Problem numbers: #29, 30, 31, 32	Results: Average percentage: 54.8% Criterion Met: Yes/ No		
Apply relevant mathematical skills in solving real-world problems	Outcome #12 Use mathematical functions to model real-world phenomena	Proctored assignment: Midterm Exam Problem numbers: #7, 9	Results: Average percentage: 70% Criterion Met: Yes /No	Average percentage: 70% Criterion Met: Yes /No	1. Results Analysis: 2. Action Plan:

Notes:

I have reviewed this report:

_____ Department Chair

Date_____

_____ Dean

Date_____

_____ Vice President of Academic Affairs and Student Services

Date_____