

## GBC Class/Course Assessment Report

**MATH 126 Precalculus I**  
**Section Number(s): 1003, 1007**  
**Instructor: Xunming Du**  
**Number of Students in the class: 7**

**Academic Year: 2023-24**  
**Semester: fall 2023**

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	<b>Outcome #1: Analyze functions and relations including, but not limited to, power, polynomial, rational, exponential, and logarithmic functions</b>	Assessment Measure:  Midterm test proctored  Question 3.3.53, find a polynomial with real coefficients which satisfies given conditions.  Criterion for achievement: 62% or more did it right	Results:  100% students did it correctly  Criterion Met: Yes	Average percentage:  Overall, 87.5% students did the designated questions right  Criterion Met: Yes	1. Results Analysis:  This is a live class with a smaller size class. Anytime students need help, they can get it. That's why students are doing so well.  2. Action Plan: Keep doing the good work!

## GBC Class/Course Assessment Report

concepts	<b>Outcome #2: Solve equations and systems of linear and nonlinear equations.</b>	<p>Assessment Measure:</p> <p>Final exam proctored Question 4.5.45, solve logarithmic equations.</p> <p>Criterion for achievement: 62 or more did it right</p>	<p>Results:</p> <p>75% of students did it correctly</p> <p>Criterion Met: Yes</p>		
Apply mathematical concepts and operations in proper written or graphical format	<b>Outcome #3: Sketch and interpret graphs of functions and relations.</b>	<p>Assessment Measure:</p> <p>Midterm test proctored Question 3.4.31, graph a polynomial function.</p> <p>Criterion for achievement: 62% or above did it right</p>	<p>Results:</p> <p>100% students did it correctly.</p> <p>Criterion Met: Yes</p>	<p>Average percentage:</p> <p>Overall, 90% students did the designated questions correctly.</p> <p>Criterion Met: Yes</p>	<p>1. Results Analysis:</p> <p>Students did it right here. Sometimes I see they could not do well on the similar type.</p> <p>2. Action Plan:</p> <p>More examples are needed in teaching this part.</p>
	<b>Outcome #4: Perform operations with and on functions.</b>	<p>Assessment Measure:</p> <p>Midterm test proctored Question 2.8.61, find composition of functions.</p> <p>Criterion for achievement: 62% or above did it right</p>	<p>Results:</p> <p>80% did it correctly.</p> <p>Criterion Met: Yes</p>		

## GBC Class/Course Assessment Report

Apply relevant mathematical skills in solving real-world problems	<b>Outcome #5 Use functions and relations to solve real-world problems</b>	Assessment Measure:  Final exam proctored Question 4.6.33, exponential growth function model  Criterion for achievement:	Results:  40% did it totally correct Another 40% did it partially correct.  Criterion Met: Barely meet	Average percentage:  If we count 40% partially correct as 50% correctly, there would be like about 60% did it correct.  Criterion Met: Yes	1. Results Analysis:  Students can do this question right in the exercise but not in the test. It appears that students did not pay enough attention to the question.  2. Action Plan: Need to emphasize the importance of the math application.
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### Notes:

Here is the summary for students' grades:

A	3	42.7%
A-	1	14.3%
B+	1	14.3%
C	2	28.7%
Total	7	100.0%

The passing rate of the class was 100%. DFW rate was 0% . The class had 7 students and it is a live class. It appears that a smaller size live class works pretty well in helping students success.

Out of seven students, six students gave the response in the student evaluation sheets. Students rated the course instructor 4.83 out of 5 in average. It appears students were pretty happy with this class. No negative comments. I shall keep working hard for our students.

I have reviewed this report:

\_\_\_\_\_  
Department Chair

Date \_\_\_\_\_

\_\_\_\_\_  
Dean

Date \_\_\_\_\_

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\_\_\_\_\_  
Vice President of Academic Affairs and Student Services

Date\_\_\_\_\_