

GBC Class/Course Assessment Report

MATH 126E Precalculus I
Section Number(s): 1004
Instructor: Xunming Du
Number of Students in the class: 19

Academic Year: 2023-24
Semester: spring 2024

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: Analyze functions and relations including, but not limited to, power, polynomial, rational, exponential, and logarithmic functions	Assessment Measure: Midterm test proctored Question 2.6.29 graph piecewise functions Criterion for achievement: 62% or more did it right	Results: 11 out of 16, or 68.75% students did it correctly Criterion Met: Yes	Average percentage: Overall, the weight average 80% students did the designated questions right Criterion Met: Yes	1. Results Analysis: The rate of 80% here is higher than that 72% of the fall semester 2023. This is probably I have updated many video lectures. 2. Action Plan: Keep the good work.

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concepts	Outcome #2: Solve equations and systems of linear and nonlinear equations.	<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>13 out 14, or 92.9% of students did it correctly</p> <p>Criterion Met: Yes</p>		
Apply mathematical concepts and operations in proper written or graphical format	Outcome #3: Sketch and interpret graphs of functions and relations.	<p>Assessment Measure:</p> <p>Midterm test proctored Question 3.2.49, synthetic division on polynomial zeros</p> <p>Criterion for achievement: 62% or above did it right</p>	<p>Results:</p> <p>12 out of 16, or 75% students did it correctly.</p> <p>Criterion Met: Yes</p>	<p>Average percentage:</p> <p>The weighted average 53.3% of the students did this part correctly.</p> <p>Criterion Met: No</p>	<p>1. Results Analysis:</p> <p>The function concept is hard for students. The concept is also abstract</p> <p>2. Action Plan:</p> <p>Need to make more videos on the function examples in Hints of the assignments.</p>
	Outcome #4: Perform operations with and on functions.	<p>Assessment Measure:</p> <p>Midterm test proctored Question 2.8.61, find compositions of functions.</p> <p>Criterion for achievement: 62% or above did it right</p>	<p>Results:</p> <p>4 out of 14, or 28.6% students did it correctly.</p> <p>Criterion Met: No</p>		

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Apply relevant mathematical skills in solving real-world problems	Outcome #5 Use functions and relations to solve real-world problems	Assessment Measure: Final exam proctored Question 4.6.33, exponential growth function model Criterion for achievement:	Results: 11 out of 14, or 78.6% students did it correctly Criterion Met: Yes	Average percentage: The overall rate is 78.6% as well for students to do the designated question well. Criterion Met: Yes	1. Results Analysis: The rate for student's success is high. 2. Action Plan: Keep the good work on this part.
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Notes:

Here is the summary for students' grades:

A	5	26.3%
B	2	10.5%
B-	2	10.5%
C+	2	10.5%
C	2	10.5%
D	1	5.3%
F	2	10.5%
W	3	15.8%
Total	19	100.0%

The passing rate of the class is 68.4%. DFW rate is 31.6%. The average passing rate is slightly higher than the average rate 60% of NSHE based on the information in the co-requisite conference. The student just could not catch up.

From the student's evaluation, it appears that students like this class. I shall keep updating my video lectures and do my best for my students.

I have reviewed this report:

Department Chair

Revised 8/18

Dean

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Date _____

Date _____

Vice President of Academic Affairs and Student Services

Date _____