

GBC Class/Course Assessment Report

MATH 126E Precalculus I
Section Number(s): 1001
Instructor: Xunming Du
Number of Students in the class: 35

Academic Year: 2023-2024
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	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-defined functions. Criterion for achievement: 62% or more did it right	Results: 69.2% students did it correctly. Criterion Met: Yes	Average percentage: The weighted average is 72% , which is above 62%. Criterion Met: Yes	1. Results Analysis: Piece-wise functions are hard for students. I am glad students can do this part well. 2. Action Plan: I shall keep making good videos to help students to study.

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<p>concepts</p>	<p>Outcome #2: Solve equations and systems of linear and nonlinear equations.</p>	<p>Assessment Measure: Final exam proctored Question 4.5.45, solve logarithmic equations. Criterion for achievement: 62 or more did it right</p>	<p>Results: 75% students did it correctly Criterion Met: Yes</p>		
<p>Apply mathematical concepts and operations in proper written or graphical format</p>	<p>Outcome #3: Sketch and interpret graphs of functions and relations.</p>	<p>Assessment Measure: Midterm test proctored Question 3.2.49, synthetic division on zeros of polynomial function Criterion for achievement: 62% or above did it right</p>	<p>Results: All students, or 100% did it correctly. Criterion Met: Yes</p>	<p>Average percentage: Overall, the weighted average of 80.8% students did the designated questions correctly. Criterion Met: Yes</p>	<p>1. Results Analysis: The concept of the function is a little bit abstract for students. 2. Action Plan: More examples in the hint of assignments might be needed for this abstract concept.</p>
	<p>Outcome #4: Perform operations with and on functions.</p>	<p>Assessment Measure: Midterm test proctored Question 2.8.61, find compositions of functions. Criterion for achievement: 62% or above did it right</p>	<p>Results: 61.5% students did it correctly. Criterion Met: barely met</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: 66.7% students did it correctly. Criterion Met: Yes	Average percentage: The overall rate is the same of 66.7% Criterion Met: Yes	1. Results Analysis: Even the goal is met. I think I still want to improve this rate since math application is important. 2. Action Plan: I shall keep the good work on it.
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Notes:

Here is the summary for students' grades:

A	10	33.33%
B+	1	3.33%
B	1	3.33%
C+	2	6.67%
C	4	13.33%
D	3	10.00%
F	2	6.67%
W	7	23.33%
Total	30	100.0%

There were four students who never attended the class and got F. One student attended the class from week six to eight and got F. We contacted the students at the very beginning of the semester and got no response from these five students. These students were abnormal and excluded from the total of 35 students. In the table, the total number is 30 instead of 35 students.

The passing rate of the class is 60%. DFW rate is 40%. In the student evaluation, students rated the course instructor 4.67 out of 5 in average. One student said, "The class is fun and challenging, it's also not too much work if you manage your time wisely." I shall take this as a compliment and keep doing my job well.

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I have reviewed this report:

Department Chair

Date _____

Dean

Date _____

Vice President of Academic Affairs and Student Services

Date _____