GBC Class/Course Assessment Report

MATH 126 Precalculus I **Academic Year: 2020-2021**
Section Number(s): 1002 **Semester: Spring 2021**
Instructor: Jinho Jung
Number of Students in the class: 25

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: 77.3 Criterion Met: **Yes**/No	Average percentage: 59.1% Criterion Met: Yes/**No**	1. Results Analysis: The general education learning outcome – Demonstrating knowledge of Mathematical notation and concepts was not met the success criterion due to the lack of the understanding in the course learning outcomes 2, 4, and 7. 2. Action Plan: I would be recommending the department to get a better tutoring tool for our students. The department did discuss a tutoring service for the corequisite pilot courses and "TutorMe" service has been provided to the corequisite
	Outcome #2: Operate on functions, including basic mathematical operations, composition and inversion	Proctored assignment: Final Exam Problem numbers: #3, 4, 5	Results: Average percentage: 37.3% Criterion Met: Yes/**No**		

	Outcome #3: Use the properties of logarithms	Proctored assignment: Final Exam Problem numbers: #15	Results: Average percentage: 88% Criterion Met: **Yes**/No		pilot courses. The "TutorMe" service has been proved to be better than Smarthinking service according to the departmental discussion. It would be better if we expand the service to all the GBC college level math courses. More exercise for this portion of the materials will be done in the future classes in class and in homework assignments
	Outcome #4: Analyze functions by finding roots turning points, and asymptotes	Proctored assignment: Final Exam Problem numbers: #7, 8, 9	Results: Average percentage: 56% Criterion Met: Yes/**No**		
	Outcome #5: Solving nonlinear inequalities	Proctored assignment: Midterm Exam Problem numbers: #16	Results: Average percentage: 63% Criterion Met: **Yes**/No		
	Outcome #6: Find the partial fraction decomposition of a rational expression	Proctored assignment: Final Exam Problem numbers: NA	Results: Average percentage: NA Criterion Met: Yes/No		

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	Outcome #7: Manipulate complex numbers and understand their relationship to the solutions of polynomial and rational equations	Proctored assignment: Final Exam Problem numbers: #6	Results: Average percentage: 4% Criterion Met: Yes/**No**		
	Outcome #8: Solve systems of equations using various methods including elimination, matrices, and determinants	Proctored assignment: Final Exam Problem numbers: #21, 22, 23	Results: Average percentage: 88% Criterion Met: **Yes**/No		
Apply mathematical concepts and operations in proper written or graphical format	**Outcome #9:** Graph a variety of functions including logarithmic, polynomial, rational, and exponential functions	Proctored assignment: Graphing Exam Problem numbers: #10, 11, 12	Results: Average percentage: 65.3% Criterion Met: **Yes**/No	Average percentage: 74.4% Criterion Met: **Yes**/No	1. Results Analysis: 2. Action Plan:
	Outcome #10: Identify, obtain, and graph the equations of circles and parabolas	Proctored assignment: Graphing Exam Problem numbers: #1, 2	Results: Average percentage: 90% Criterion Met: **Yes**/No		

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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: 68% Criterion Met: **Yes**/No		
Apply relevant mathematical skills in solving real-word problems	**Outcome #12** Use mathematical functions to model real-world phenomena	Proctored assignment: Midterm Exam Problem numbers: #7, 9	Results: Average percentage: 76% Criterion Met: **Yes**/No	Average percentage: 76% Criterion Met: **Yes**/No	1. Results Analysis: 2. Action Plan:

Notes: All the measuring on each learning outcome are from the proctored exams; the final and midterm exam.

I have reviewed this report:

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Department Chair Dean

Date_____ Date_____

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Vice President of Academic Affairs and Student Services

Date_____