

## GBC Class/Course Assessment Report

MATH 120 Fundamentals of College Mathematics

Section Number(s): 1008

Instructor: Jinho Jung

Number of Students: 15

Academic Year: 2021-2022

Semester: Fall 21

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 assessed 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:</b>  Solve problems using the basic rules of probability.	Proctored assignment: Final Exam  Problem numbers:  11.4.11 11.4.57 11.6.13 11.7.13 11.7.55	Results:  62.8% answered correctly  Criterion Met: <b>Yes</b>	Average percentage:  55.6%  Criterion Met: Yes/ <b>No</b>	1. Results Analysis:  Both learning outcomes in the first general education learning outcome were not achieved. The topics are regarding probability and set theory.  2. Action Plan: The action plan will be address below the table

## GBC Class/Course Assessment Report

	<p><b>Outcome #2:</b></p> <p>Solve problems using basic set theory.</p>	<p>Proctored assignment:</p> <p>Problem numbers: 2.3.25 2.3.135 2.4.55 2.5.27 2.5.34</p>	<p>Results:</p> <p>On average 48.3% answered correctly.</p> <p>Criterion Met: <b>/No</b></p>		
<p>Apply mathematical concepts and operations in proper written or graphical format</p>	<p><b>Outcome #3:</b></p> <p>Follow appropriate mathematical format and use proper mathematical notation in solving problems.</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers: 10.2.23 9.3.49 10.4.23</p>	<p>Results:</p> <p>On average, 66.6% answered correctly</p> <p>Criterion Met: <b>Yes</b></p>	<p>Average percentage: 66.6%</p> <p>Criterion Met: <b>Yes/No</b></p>	<p>1. Results Analysis:</p> <p>2. Action Plan:</p>
	<p><b>Outcome #4:</b></p> <p>Use mathematical formulas to evaluate problems involving financial data.</p>	<p>Proctored assignment:</p> <p>Problem numbers:  8.3.3 8.3.11 8.5.39</p>	<p>Results:</p> <p>On average, 62.5% answered correctly.</p> <p>Criterion Met: <b>Yes</b></p>	<p>Average percentage: 63.5%</p> <p>Criterion Met: <b>Yes/No</b></p>	<p>1. Results Analysis:</p> <p>Students showed weakness in their performance in course learning outcome #8 and #9.</p>

## GBC Class/Course Assessment Report

<p>Apply relevant mathematical skills in solving real-world problems</p> <p><b>Continued:</b> Apply relevant mathematical skills in solving real-world problems</p>	<p><b>Outcome #5:</b> Solve problems using dimensional analysis</p>	<p>Proctored assignment: Midterm exam 2</p> <p>Problem numbers: 9.1.9 9.1.21 9.2.11 9.3.49</p>	<p>Results: On average 71.9 answered correctly</p> <p>Criterion Met: <b>Yes</b></p>	<p>2. Action Plan: I am planning to address those problems more in-depth in the class.</p>
	<p><b>Outcome #6:</b> Identify and analyze statistical data.</p>	<p>Proctored assignment: Final Exam</p> <p>Problem numbers: 12.2.3 12.2.18 12.4.37 12.3.23</p>	<p>Results: On average 78% answered correctly</p> <p>Criterion Met: <b>Yes</b></p>	
	<p><b>Outcome #7:</b> Use formal and symbolic logic to analyze arguments and draw valid conclusions.</p>	<p>Proctored assignment: Midterm exam 1</p> <p>Problem numbers: 3.7.23 3.7.11 3.5.17 3.2.7</p>	<p>Results: On average 66.7% answered correctly.</p> <p>Criterion Met: <b>Yes</b></p>	
	<p><b>Outcome #8:</b> Use trigonometry to solve problems involving right triangles.</p>	<p>Proctored assignment: Midterm Exam 2</p> <p>Problem numbers: 10.6.37 10.2.23</p>	<p>Results: On average 56.3% answered correctly</p> <p>Criterion Met: <b>No</b></p>	

**GBC Class/Course Assessment Report**

	<p><b>Outcome #9:</b> Calculate perimeter, area, surface area, and volume of various geometric objects.</p>	<p>Proctored assignment: Midterm Exam 2</p> <p>Problem numbers: 10.4.13 10.4.23 10.5.9</p>	<p>Results: On average 45.8 % answered correctly.</p> <p>Criterion Met: <b>No</b></p>		
--	---	--	---	--	--

**Notes:** Regardless the assessment above, about 70% of the students either dropped or failed the course Math 120E. One of the action plans for this corequisite course is to have a Saturday study group every week to help students who are struggling and go over the problems that students have difficulty in. Also, unitizing my weekly announcement, I will encourage students to attend the other extra tutoring sessions. For the first semester full implementation of the corequisite course, I also feel there need more communications and interactions between students and the instructor. I am creating a video explain the expectations and emphasizing what need to be done throughout the semester.

I have reviewed this report:

\_\_\_\_\_

Department Chair

Date\_\_\_\_\_

\_\_\_\_\_

Dean

Date\_\_\_\_\_

\_\_\_\_\_

Vice President of Academic Affairs and Student Services

Date\_\_\_\_\_