Assessment: Course Four Column

Courses (MATH) - Math

MATH 120:Fund of College Math

Course Outcomes	Assessment Measures	Results	Actions
Basic rules of probability - Solve problems using the basic rules of probability. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: 11.1.9, 11.4.11, 11.5.15 **Criterion:** 11.1.9: 63% 11.4.11: 74% 11.5.15: 21% Average: 53%	**Reporting Period:** 2018-2019 **Criterion Met:** No 11.1.9: 72% 11.4.11: 83% 11.5.15: 28% Average: 61% Results Analysis: Students achievement in these objectives were mostly OK but with a few particularly low areas. Two of the particularly low areas were application type problems indicating to me that students has difficulty taking the information they needed out of real-world situations. (10/03/2019)	**Action:** Possibly the students need more practice with application problems. I tend to focus the homework on computation type problems (especially in probability) but I think I need to add more application problems. (10/03/2019)
Basic set theory - Solve problems using basic set theory. **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Proctored assignment: Midterm Problem numbers: 2.1.85, 2.3.93, 2.3.7, 2.4.5, 2.5.27 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** No 2.1.85: 30% 2.3.93: 50% 2.3.7: 90% 2.4.5: 70% 2.5.27: 30% Average: 54% (10/03/2019)	
Follow appropriate mathematical format - Follow appropriate mathematical format and use proper mathematical notation in solving problems.	**Exam -** Proctored assignment: Midterm and Final exams Problem numbers: 2.1.11, 3.2.7, 3.6.19, 3.5.23, 9.1.21 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 2.1.11: 80% 3.2.7: 90% 3.6.19: 60%	**Action:** I don't feel there needs to be a change for these outcomes. (10/03/2019)

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Course Outcome Status: Active **Next Assessment:** 2023-2024		3.5.23: 70% 9.1.21: 94% Average: 79% Results Analysis: The students achieved quite well on these problems and these outcomes. (10/03/2019)	
Mathematical formulas to evaluate problems involving financial data - Use mathematical formulas to evaluate problems involving financial data. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Midterm Problem numbers: 8.3.3, 8.4.7, 8.5.29, 8.6.1 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** No 8.3.3: 90% 8.4.7: 50% 8.5.29: 35% 8.6.1: 55% Average: 58% Results Analysis: I'm particularly concerned on these outcomes with the lack of understand exhibited in handling financial data since that is something the students could particularly use in real life. I also notice the lowest achievement is on the geometry topics. I give less time for the geometry sections in this class because I feel they are simpler, but perhaps I am incorrect in that assessment. The other two low achieving areas were both from the midterm. Students were more familiar with what to expect on the final since the midterm is the first proctored assessment in this course. (10/03/2019)	**Action:** I think next time I will rearrange the schedule to give more time for geometry and I will make a specific practice midterm and final for the students instead of just having them rely on the chapter summary assignments to prepare. (10/03/2019)
Dimensional analysis - Solve problems using dimensional analysis **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 9.1.9: 89% 9.1.23: 94% Average: 92% (10/03/2019)	
Identify and analyze statistical data - Identify and analyze statistical data. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final exam Problem numbers: 12.1.52, 12.2.3, 12.3.23, 12.4.37 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 12.1.52: 72% 12.2.3: 100% 12.3.23: 39% 12.4.37: 83% Average: 74% (10/03/2019)	
Formal and symbolic logic to analyze			

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arguments and draw valid conclusions - Use formal and symbolic logic to analyze arguments and draw valid conclusions. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Midterm Problem numbers: 3.3.27, 3.7.11 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** No 3.3.27: 50% 3.7.11: 40% Average: 45% (10/03/2019)	
Trigonometry to solve problems involving right triangles - Use trigonometry to solve problems involving right triangles. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: 10.2.23, 10.6.37 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** No 10.2.23: 94% 10.6.37: 22% Average: 58% (10/03/2019)	
Calculate perimeter, area, surface area, and volume of various geometric objects - Calculate perimeter, area, surface area, and volume of various geometric objects. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: 10.4.13, 10.5.9, 10.5.59 **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** No 10.4.13: 50% 10.5.9: 33% 10.5.59: 11% Average: 31% (10/03/2019)	**Action:** I was assessing this course in particular to try out the new math department for that is built with the intention of being a viable instrument for both Gen Ed and regular course assessment. I also was interested in how the new book might be working with the students. There were originally 30 students in the class but 8 withdrew with a score of "W". Only 20 students took the midterm and 18 took the final. One student never signed in to MyMathLab despite repeated contact early in the semester. Besides the changes discussed here, I think I want to try to find a way to encourage students to complete assignments in a timely manner. The students who did not successfully complete this course all had habits of not completing homework on time or simply skipping assignments. I'm wondering if adding some school success videos to this course like I would for a developmental class

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			might help. (10/03/2019)