Assessment: Course Four Column

Courses (MATH) - Math

MATH 091:Basic Mathematics

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Perform addition, subtraction, multiplication and division - Perform addition, subtraction, multiplication, and division with whole numbers, fractions, mixed numbers, signed numbers, decimals, and percentages. **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 06/20/2016	**Exam -** Midterm Exam Questions #1-7, 9, 10 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam	**Reporting Period:** 2016-2017 **Criterion Met:** Yes The exam average was 69%, with 97% of the students scoring 70% of higher. Qu. #3: 82% successful Qu. #4: 95% successful Qu. #5: 91% successful Qu. #6: 86% successful Qu. #7: 73% successful Qu. #9: 94% successful Qu. #10: 64% successful Qu. #11: 77% successful (10/20/2017)	**Action:** Question #10 was on subtracting mixed fractions. As always, students have difficulty in simplifying expressions involving fractions in general. I will use area and number-line models to explain this concept better in the future. Since this was an online course, I will include YouTube videos on area and number-line models (10/20/2017)
Algebraic expressions and formulas - Write, evaluate, and simplify algebraic expressions and formulas. **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 06/20/2016	**Exam -** Final Exam Questions #8 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.	**Reporting Period:** 2016-2017 **Criterion Met:** Yes The exam average was 72%, with 97% of the students scoring 70% of higher. Qu. #8: 95% successful (10/20/2017)	**Action:** No action needed. I will keep using the same method of instruction. (10/20/2017)
Solve proportions for an unknown - Solve proportions for an unknown, including proportions involving decimals and fractions. **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 06/20/2016	**Exam -** Midterm Exam Questions #23, 24, 25, & 31 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.	**Reporting Period:** 2016-2017 **Criterion Met:** Yes and No The exam average was 69%, with 97% of the students scoring 70% of higher. Qu. #23: 23% successful Qu. #24: 100% successful Qu. #25: 95% successful Qu. #31: 68% successful (10/20/2017)	**Action:** On questions 23 and 31 were word problems involving fractions. I will use area and number-line models to explain this concept better in the future. Since this was an online course, I will include YouTube videos on area and number-line models

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			(10/20/2017)
English and metric systems of measurement - Convert between units in the English and metric systems of measurement and between units within each system. **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 06/20/2016	**Exam -** Final Exam Qu. #27-29 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam	**Reporting Period:** 2016-2017 **Criterion Met:** Yes The exam average was 69%, with 97% of the students scoring 70% of higher. Qu. #27: 68% successful Qu. #28: 73% successful Qu. #29: 91% successful (10/23/2017)	**Action:** Question 27 was on converting units. Maybe, this was problematic for some students who are too used to only English Metric systems of units. I will use real-life to emphasize this concept more. Perhaps, students will begin to see the importance of able to convert units from one system to another. (10/23/2017)
Basic geometric figures - Find the perimeter, area, and volume of a variety of basic geometric figures as well as classify lines, angles, and triangles. **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 06/20/2016	**Exam -** Final exam #15, 22, & 23 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.	**Reporting Period:** 2016-2017 **Criterion Met:** Yes The exam average was 72%, with 97% of the students scoring 70% of higher. Qu. #15: 64% successful Qu. #22: 82% successful Qu. #23: 73% successful (10/23/2017)	**Action:** Question 15 was on finding volume of a cylinder. Students either used wrong formula or did not evaluated it well. There were computational issues. Maybe, providing formula could help. Anyway, students were allowed to use their own notes. (10/23/2017)
Laws of Exponents to simplify monomials and polynomials - Use the Laws of Exponents to simplify monomials and polynomials. **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 10/23/2017	**Exam -** Final Exam Qu. #5 & #6 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.	**Reporting Period:** 2016-2017 **Criterion Met:** Yes The exam average was 22%, with 97% of the students scoring 70% of higher. Qu. #5: 91% successful Qu. #6: 100% successful (10/23/2017)	
Operations on binomials and polynomials - Perform operations on binomials and polynomials **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 10/23/2017	**Exam -** Final Exam Qu. #16-19, 30 **Criterion:** Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.	**Reporting Period:** 2016-2017 **Criterion Met:** Yes The average was 72%, with 97% of the students scoring 70% of higher. Qu. #16: 82% successful Qu. #17: 59% successful Qu. #18: 82% successful Qu. #19: 41% successful Qu. #30: 86% successful (10/23/2017)	**Action:** Question 17 and 19 were on factoring trinomials. I will use applets to help students visualize this concept. (10/23/2017) **Follow-Up:** This course was online and used MyOpenMath where students no textbook was required. Students really like the idea of not buying textbook and

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			the lectures videos. The class went very well being the first time teaching it and I would not make any major changes to the structure of the class. I will maintain the assignment categories. What was done differently? Assignments would be due on Mondays instead of on Sundays. I found this due date very helpful to students because they would have opportunity to ask questions on the homework and quiz in class, if any. (10/23/2017)