

Assessment: Course Four Column

Courses (MATH) - Math

MATH 122:Num Concept for Elem Tchr

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p>Inductive and deductive reasoning to solve problems - Use inductive and deductive reasoning to solve problems.</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2021-2022</p> <p>Start Date: 09/05/2017</p>	<p>Exam - Midterm Exam #1 Questions #1 & #2</p> <p>Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.</p>	<p>Reporting Period: 2016-2017</p> <p>Criterion Met: Yes and No</p> <p>The exam average was 92%, with 100% of the students scoring 70% of higher. 12 out of 16 students scored 90% or higher.</p> <p>Qu. #1: 69% successful Qu. #2: 88% successful (02/07/2018)</p>	<p>Action: On question #1, some students were confused on the differences between arithmetic and geometric sequences. I will relate the concept more to real-life situations and perhaps, do more examples. (02/07/2018)</p>
<p>Basic calculations in a variety of number systems - Perform basic calculations in a variety of number systems.</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2021-2022</p> <p>Start Date: 09/05/2017</p>	<p>Exam - Midterm Exam #1 Questions #3 & #4</p> <p>Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.</p>	<p>Reporting Period: 2016-2017</p> <p>Criterion Met: Yes</p> <p>The exam average was 92%, with 100% of the students scoring 70% of higher. 12 out of 16 students scored 90% or higher.</p> <p>Qu. #3: 100% successful Qu. #4: 88% successful (02/07/2018)</p>	<p>Action: No action needed. I will keep using the same method of instruction (02/07/2018)</p>
<p>Correct use of set notation and operations - Make correct use of set notation and operations.</p> <p>Course Outcome Status: Active</p> <p>Next Assessment: 2021-2022</p> <p>Start Date: 09/05/2017</p>	<p>Exam - Midterm #1 Questions #10 & #11 Final exam: Qu.#17</p> <p>Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.</p>	<p>Reporting Period: 2016-2017</p> <p>Criterion Met: No</p> <p>Midterm #1—The average was 92%, with 100% of the students scoring 70% of higher. 12 out of 16 students scored 90% or higher.</p> <p>Qu. #10: 44% successful Qu. #11: 56% successful</p> <p>Final Exam—The average was 82%, with 80% of the students scoring 70% of higher. One out of 5 students scored 90% or higher.</p>	<p>Action: Students had difficulty solving applied problems in two- and three- set problems, especially, using set notations to describe the regions. I will spend more time on explaining this concept. In addition, I will do few more examples in class. (02/07/2018)</p>

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<p>Basic mathematical operations and fundamental properties of real numbers - Demonstrate a deeper understanding of basic mathematical operations and fundamental properties of real numbers Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 09/05/2017</p>	<p>Exam - Midterm #1 exam Qu. 24 & 25 Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes The exam average was 92%, with 100% of the students scoring 70% of higher. 12 out of 16 students scored 90% or higher. Qu. #24: 88% successful Qu. #25: 75% successful (02/07/2018)</p>	<p>Action: No action needed. I will keep using the same method of instruction (02/07/2018)</p>
<p>Composite numbers from prime numbers - Develop composite numbers from prime numbers. Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 09/05/2017</p>	<p>Exam - Midterm #2 exam \$7, 8, 12 Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes Midterm #2—The average was 92%, with 100% of the students scoring 70% of higher. Nine out of 16 students scored 90% or higher. Qu. #7: 94% successful Qu. #8: 81% successful Qu. #12: 88% successful (02/07/2018)</p>	<p>Action: No action needed. I will keep using the same method of instruction (02/09/2018)</p>
<p>Development of the integers, rational numbers, and real numbers - Understand and explain clearly the development of the integers, rational numbers, and real numbers. Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 09/05/2017</p>	<p>Exam - Midterm #2 Qu. #23, 29 Final exam Qu. #13, 24 Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes Midterm #2—The average was 92%, with 100% of the students scoring 70% of higher. 12 out of 16 students scored 90% or higher. Qu. #23: 69% successful Qu. #29: 88% successful Final Exam—The average was 82%, with 80% of the students scoring 70% of higher. One out of 5 students scored 90% or higher. Qu. #13—60% successful Qu. #24—100% successful (02/09/2018)</p>	<p>Action: Some students had difficulty in estimation when applied to real-life situation. Students were rounding up instead of rounding down and vice versa. I will try to explain to students with examples when to round up or down in estimating whole numbers. (02/09/2018)</p>
<p>Concepts, such as modular arithmetic and alternate techniques of calculating with the basic operations - Explain a familiarity with other concepts, such as modular arithmetic and alternate techniques</p>	<p>Exam - Midterm #1 Qu. #15, 16 Criterion: Class exam average of 70% or higher on exam. Scoring 70% or higher on specific item on exam.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes and No The exam average was 92%, with 100% of the students scoring 70% of higher. 12 out of 16 students scored 90% or higher. Qu. #15: 88% successful</p>	<p>Action: It seemed students found somewhat difficulty in converting base-ten to different base, say, to base eight or seven. I will explain this concept better next time and relate concept to when other</p>

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of calculating with the basic operations Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 09/05/2017		Qu. #16: 63% successful (02/09/2018)	bases are needed in real-life. Students are too used to performing operations in base ten. (02/09/2018)
Applied problems using a variety of techniques - Solve applied problems using a variety of techniques Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 09/05/2017	Exam - Final exam Qu. #3, 7, 9, 13, 20, 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 and No Final Exam—The average was 82%, with 80% of the students scoring 70% of higher. One out of 5 students scored 90% or higher. Qu. #3—100% successful Qu. #7—40% successful Qu. #9—100% successful Qu. #13—40% successful Qu. #20—60% successful Qu. #30—80% successful (02/09/2018)	Action: Students had difficulty in solving word problems involving percent and discount, concept of functions, and money related problems. Generally, students have word problems challenging. I will explain this concept better next time using algorithm. I will need to solve few more examples in class. (02/09/2018) Follow-Up: This was my time time of teaching this course. The class went very well being the first time teaching it and I would not make any major changes to structure of the class. I will maintain the assignment categories, but the final exam would not be comprehensive. 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. (02/09/2018)