## **Assessment: Course Four Column**

## Courses (MATH) - Math

## MATH 095 Owens: Elementary Algebra

Course Outcomes	Assessment Measures	Results	Actions
Identify, set up, and solve a variety of applied problems using algebraic techniques - Identify, set up, and solve a variety of applied problems using algebraic techniques Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 10/25/2017	Exam - Midterm Exam #1 Distance applied problem Final Exam #15 Mixture applied problem #7 Problem modeled by quadratic Criterion: NA	Reporting Period: 2016-2017 Criterion Met: N/A Midterm Exam #1 22% answered correctly Final Exam #15 17% answered correctly #7 39% answered correctly (02/09/2018)	
Add, subtract, multiply, divide, and factor polynomials - Add, subtract, multiply, divide, and factor polynomials Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 10/25/2017	Exam - Final Exam #2 GCF followed by trinomial #3 Trinomial factoring #4 Perfect square trinomial #5 Sum/difference of cubes #10 Difference of squares #12 Synthetic division Criterion: NA	Reporting Period: 2016-2017 Criterion Met: N/A Final Exam #2 50% answered correctly #3 72% answered correctly #4 50% answered correctly #5 33% answered correctly #10 72% answered correctly #12 17% answered correctly (02/09/2018)	
Graph and solve linear equations and inequalities - Graph and solve linear equations and inequalities Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 10/25/2017	Exam - Midterm Exam #2 Linear inequality #3 Two points #4 Linear equation #7 System of equations substitution #8 System of equations addition Final Exam	Reporting Period: 2016-2017 Criterion Met: N/A Midterm Exam #2 39% answered correctly #3 44% answered correctly #4 50% answered correctly #7 44% answered correctly #8 61% answered correctly	

Course Outcomes	Assessment Measures	Results	Actions	
	#11 System of equations #13 Graph linear equation #14 linear inequality <b>Criterion:</b> NA	Final Exam #11 17% answered correctly #13 61% answered correctly #14 39% answered correctly (02/09/2018)		
Graph and solve quadratic equations by various methods, including by the quadratic formula - Graph and solve quadratic equations by various methods, including by the quadratic formula. Course Outcome Status: Active Next Assessment: 2021-2022 Start Date: 10/25/2017	Criterion: NA Exam - Final Exam #8 Solve quadratic using quadratic formula #9 Solve equations in quadratic form Criterion: NA	<pre>#14 39% answered correctly (02/09/2018)  Reporting Period: 2016-2017 Criterion Met: N/A Final Exam #8 61% answered correctly #9 17% answered correctly (02/09/2018)</pre>	Action: Class Averages Midterm: 45.05% Final Exam average: 46.1% Grade Distribution: Total number of students 1 Grade Number of Students Percentage A 1 5.2% B 7 36.8% C 4 21.1% D 2 10.5% F 5 26.3% Number of Students 1 7 4 2 5 Percentage 5.2%	9 nts
			36.8% 21.1% 10.5% 26.3% I also taught a full semester section of MATH 95 this ser Here is the grade distributio that course. Final Exam Average: 36.5% Grade Distribution: Total number of students: Grade Number of Students	r mester. on for 24

Course Outcomes	Assessment Measures	Results	Actio	ns	
Course Outcomes	Assessment Measures	Results	Action Percent A B C D F Number 1 5 8 3 7 Percent 4.1% 20.8% 33.3% 12.5% 29.2% Concer 1. perform outcom Althoug average semest course scores a in the f student 2 in the have gu	ns Exames ans Exames mance on hes gh the fina e was low er course (that was are truly h ull-semes ts have 4 e short cou- uessed that one freque one bette nent is fo	4.1% 20.8% 33.3% 12.5% 29.2% ents ents eccores and learning al exam score er for the full- than the 8-week a surprise), both norrible. Worse, ter course, exams versus the urse. I would at students who ent testing would r. ACTION: (This r the short MATH
			have do assessn 95 cour discuss clearly Due to the cou add mo	ne bette nent is fo rse, so I w ion on tha both cour the accele irse, I had ore work,	r. ACTION: (This r the short MATH ill focus the at course, though rses need work.) erated nature of been reluctant to but starting this

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			summer, I will add a weekly take- home quiz. I hope that students will benefit from more lower-risk work and from getting more consistent and regular feedback from me.
			<ol> <li>The high number of 'F' grades</li> <li>In the short course, 4 of the 5 students who earned a failing grade participated through the end of the course. In the full-semester course, 5 of the 7 students who earned a grade of 'F never finished the course. The fact that there was a better persistence rate (for the students who earned 'F' grades) in the 8-week course is very surprising, but is most likely an anomaly. Anecdotally, I feel that many of the students who take the 8-week course are not at all prepared for the pace and discipline required, particularly the high school students. I did send out letters in advance of the start of the semester detailing the amount of work and explaining any problems that are present in a 16-week course (lack of time for</li> </ol>
			homework, difficulty with the subject matter, unreliable internet/computer) are exacerbated in an 8-week course.
			If we are to believe the general

characteristics of the millennial and now iGen students, these warnings may have gone unheeded, since these students

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			have a strong faith in their ability to succeed. However, I will redouble my efforts in getting the word out prior to and during the first week of the semester. I have already ordered a copy of "Teach Students How to Learn" by Sandra McGuire and would like to try some of the things she suggests, including an assessment early in the semester, followed by a full lecture on how to study. I have not really spent the equivalent of a full class period addressing study skills, but it is a poor assumption on my part to believe these students already know what to do.

(02/09/2018)