

# Assessment: Course Four Column



## Courses (MATH) - Math

### MATH 126 JUNG :Pre Calculus I

Course Outcomes	Assessment Measures	Results	Actions												
<p><b>Equations and inequalities including linear, quadratic, polynomial, rational, absolute value, logarithmic, and exponential</b> - Solve a variety of equations and inequalities including linear, quadratic, polynomial, rational, absolute value, logarithmic, and exponential.</p> <p><b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023</p>	<p><b>Exam</b> - Exam Ch. 1 and 4 <b>Criterion:</b> Overall average score of 70% on the two exams</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes The overall achievement on Ch. 1 and Ch. 4 exam was 74.7% and 69.4% respectively. The average of the exam scores is 72%. (01/16/2019)</p>													
<p><b>Graph a variety of functions</b> - Graph a variety of functions including linear, quadratic, polynomial, absolute value, rational, greatest integer, exponential, logarithmic and piecewise-defined functions by finding domain, range, zeros, intercepts, asymptotes, and describing symmetries.</p> <p><b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2022-2023</p>	<p><b>Exam</b> - #1, 2, 3, 7, 8 on Exam Ch. 2 <b>Criterion:</b> Overall average of 70 % of students achieve on the problems.</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> Yes Overall 73% of students showed satisfactory performance on the learning outcome.</p> <p>Problems Achievement</p> <table> <tr><td>#1</td><td>75%</td></tr> <tr><td>#2</td><td>91%</td></tr> <tr><td>#3</td><td>56%</td></tr> <tr><td>#7</td><td>65%</td></tr> <tr><td>#8</td><td>78%</td></tr> <tr><td>overall</td><td>73% (01/16/2019)</td></tr> </table>	#1	75%	#2	91%	#3	56%	#7	65%	#8	78%	overall	73% (01/16/2019)	
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<p><b>Perform operations on functions</b> - Perform operations on functions, find the domain and range of a function as well as the inverse and difference</p>	<p><b>Exam</b> - #4, 15, 16, 18 on Exam Ch. 2 <b>Criterion:</b> Overall average of 70 % of students achieve on the problems.</p>	<p><b>Reporting Period:</b> 2017-2018 <b>Criterion Met:</b> No The overall achievement was 47.8% on this learning outcome.</p>	<p><b>Action:</b> 1. Review homework and quiz assignments. Assign better problems for understanding concepts.</p>												

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<p>quotient.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2022-2023</p>		<p>Problems Achievements</p> <table border="0"> <tr><td>#4</td><td>31%</td></tr> <tr><td>#15</td><td>66%</td></tr> <tr><td>#16</td><td>78%</td></tr> <tr><td>#18</td><td>16%</td></tr> <tr><td>Overall</td><td>47.8% (01/16/2019)</td></tr> </table>	#4	31%	#15	66%	#16	78%	#18	16%	Overall	47.8% (01/16/2019)	<p>2. For problems that students are having difficulty with, I will produce videos to go over the problems and distribute the videos to students.  3. I plan to cover the sections 1.1, 1.3, 1.7 and 1.8 which are the basic foundations of Chapter 2. (01/16/2019)</p>				
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Overall	47.8% (01/16/2019)																
<p><b>Use synthetic division, the Division algorithm, Remainder Theorem, and Factor Theorem to factor polynomials</b> - Use synthetic division, the Division algorithm, Remainder Theorem, and Factor Theorem to factor polynomials  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2022-2023</p>	<p><b>Exam</b> - Exam Ch. 3  <b>Criterion:</b> Average 70% on each exam</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes  The average score was 77.3%. (01/16/2019)</p>															
<p><b>Real-world problems involving quadratics, linear systems of equations, exponential and logarithmic function</b> - Solve a variety of real-world problems involving quadratics, linear systems of equations, exponential and logarithmic function  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2022-2023</p>	<p><b>Quiz</b> - Homework and Quiz on Section 4.6  <b>Criterion:</b> Overall average of 70% on the homework and quiz combined.</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes  Students achieved 76% on the homework and 66% on the quiz. Overall achievement was 71%. (01/16/2019)</p>	<p><b>Action:</b> Students did not do well on the quiz. I will plan to produce videos regarding the quiz problems and distribute them to students. (01/16/2019)</p>														
<p><b>Solve systems of equations with two or three variables</b> - Solve systems of equations with two or three variables using substitution, addition, Cramer's Rule, Gaussian elimination, or the inverse of a matrix. (Gaussian elimination and matrix inversion optional)  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2022-2023</p>	<p><b>Assignment - Written</b> - Homework and quiz on each section of Ch. 9  <b>Criterion:</b> Overall average of 70% on the homework and quiz combined</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes  The overall achievement was 82% on this learning outcome.</p> <table border="0"> <thead> <tr> <th>Assignments</th> <th>Achievement</th> </tr> </thead> <tbody> <tr><td>Homework 9.1</td><td>88%</td></tr> <tr><td>Homework 9.2</td><td>75%</td></tr> <tr><td>Homework 9.3</td><td>88%</td></tr> <tr><td>Homework 9.4</td><td>77%</td></tr> <tr><td>Homework 9.5</td><td>83%</td></tr> <tr><td>Quiz 9.1</td><td>74%</td></tr> </tbody> </table>	Assignments	Achievement	Homework 9.1	88%	Homework 9.2	75%	Homework 9.3	88%	Homework 9.4	77%	Homework 9.5	83%	Quiz 9.1	74%	
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Quiz 9.1	74%																

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<p><b>Perform operations on complex numbers and matrices</b> - Perform operations on complex numbers and matrices (Matrix inversion is optional.)</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2022-2023</p>	<p><b>Assignment - Written</b> - Homework and quiz on section 1.3 and 9.7.</p> <p><b>Criterion:</b> Overall average of 70% on the homework and quiz combined</p>	<p>Quiz 9.2 85%</p> <p>Quiz 9.3 82%</p> <p>Quiz 9.4 69%</p> <p>Quiz 9.5 92%</p> <p>Overall 81% (01/16/2019)</p> <hr/> <p><b>Reporting Period:</b> 2017-2018</p> <p><b>Criterion Met:</b> Yes</p> <table border="0"> <tr> <td>Assignments</td> <td>Achievement</td> </tr> <tr> <td>Homework 9.7</td> <td>85%</td> </tr> <tr> <td>Homework 1.3</td> <td>94%</td> </tr> <tr> <td>Quiz 9.7</td> <td>88%</td> </tr> <tr> <td>Quiz 1.3</td> <td>90%</td> </tr> <tr> <td>Overall</td> <td>89% (01/16/2019)</td> </tr> </table>	Assignments	Achievement	Homework 9.7	85%	Homework 1.3	94%	Quiz 9.7	88%	Quiz 1.3	90%	Overall	89% (01/16/2019)	<p><b>Action:</b> For online classes, the communication between the instructor and students is a key element for students' academic success. I will be establishing communication by using the webcampus announcements, email and other methods in future semesters. Using People Soft email, I will let students know the class information ahead of time, so students can prepare class materials such as purchasing a textbook, obtaining a My Math Lab license before the first day of the class.</p> <p>Overall, the class did well. However, the identified weaknesses in the Math 126 Online-class were in the two learning outcomes; 1) Performing operations on functions, finding the domain and range of a function as well as the inverse and difference quotient, 2) Using synthetic division, the division algorithm, remainder theorem and factor theorem to factor polynomials. Using the My Math Lab analysis, I can identify problems that students have the most difficulty with. For these problems, I will be producing videos to go over problems especially the quiz problems. In</p>
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addition, posting relevant YouTube videos will help students to understand the concepts.  
(01/16/2019)