## Assessment: Course Four Column

## Courses (MATH) - Math

## MATH 128:Precalculus and Trigonometry

| Course Outcomes | Assessment Measures | Results | Actions |  |
| :---: | :---: | :---: | :---: | :---: |
| Solve a variety of equations and inequalities - Solve a variety of equations and inequalities including linear, quadratic, polynomial, rational, absolute value, logarithmic, and exponential <br> Course Outcome Status: Active <br> Next Assessment: 2020-2021 <br> Start Date: 06/20/2016 | Assignment - Written - F Question \#9 (exponential) <br> 3 \& 4 Question \#10 (logarithmic) <br> Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 17% 55%``` NOTE: Percent refers to the percentage of students who earned full credit on the problem. (01/22/2019) |  |  |
| Functions including linear, quadratic, polynomial, absolute value, rational, greatest integer, exponential, logarithmic and piecewise-defined functions - 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 <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | Assignment - Written - G Question \#1 (piecewise) <br> G Question \#2 (polynomial) <br> G Question \#3 (rational) <br> G Question \#4 (transformations) <br> G Question \#5 (logarithmic) <br> Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 83% 667% 78% 61% 67% (01/22/2019)``` |  |  |
| Solve systems of equations with two or three variables using substitution, addition, or Cramer's Rule - Solve systems of equations with two or | Assignment - Written - 9 Question \#1 (linear) <br> 9 Question \# 2 (Cramer's rule) <br> 9 Question \#3 (nonlinear) | Reporting Period: 2017-2018 <br> Criterion Met: N/A <br> 67\% <br> 48\% |  |  |
| 01/23/2019 |  | ated by Nuventive Improve |  | Page 1 of 5 |


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| :---: | :---: | :---: | :---: | :---: |
| three variables using substitution, addition, or Cramer's Rule. <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | 9 Question \#4 (nonlinear) <br> Criterion: NA | $\begin{aligned} & 71 \% \\ & 57 \% ~(01 / 22 / 2019) \end{aligned}$ |  |  |
| Perform operations on complex numbers and matrices - Perform operations on complex numbers and matrices <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | Assignment - Written - 9 Question \#5 (multiplication) <br> Criterion: NA | Reporting Period: 2017-2018 <br> Criterion Met: N/A <br> 57\% (01/22/2019) |  |  |
| Real-world problems - Solve a variety of real-world problems involving quadratics, linear systems of equations, exponential and logarithmic functions <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | Assignment - Written - F Question \#3 (quadratic) <br> 3 \& 4 Question \#11 (exp. Growth) 3 \& 4 Question \#8 (logarithmic) Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 50% 91% 91% (01/22/2019)``` |  |  |
| Functions, find the domain and range of a function as well as the inverse and difference quotient Perform operations on functions, find the domain and range of a function as well as the inverse and difference quotient <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | ```Assignment - Written - F Question \#1 (diff. quotient) F Question \#2 (composition)``` | ```Reporting Period: 2017-2018 Criterion Met: N/A 78% 22% (01/23/2019)``` |  |  |
| Factor polynomials - Use synthetic division, the Division algorithm, Remainder Theorem, and Factor Theorem to factor polynomials Course Outcome Status: Active Next Assessment: 2022-2023 | Assignment - Written - 3 \& 4 <br> Question \#2 <br> Criterion: NA | Reporting Period: 2017-2018 <br> Criterion Met: N/A <br> 82\% (01/23/2019) |  |  |
| Six trigonometric functions - <br> Compute values of the six trigonometric functions and their inverses <br> Course Outcome Status: Active | Assignment - Written-5 \& 6 <br> Question \#3 <br> 5 \& 6 Question \#6 <br> Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 67% 61% (01/23/2019)``` |  |  |
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| :---: | :---: | :---: | :---: |
| Next Assessment: 2020-2021 <br> Start Date: 06/20/2016 |  |  |  |
| Trigonometric identities - Verify and use trigonometric identities Course Outcome Status: Active Next Assessment: 2022-2023 | Exam-7 \& 8 Question \#12 7 \& 8 Question \#1 Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 12% 35% (01/23/2019)``` |  |
| Graph and analyze - Graph and analyze parametric equations, trigonometric functions, conic sections, vectors, and polar equations and convert between the Cartesian and polar coordinate systems Course Outcome Status: Active Next Assessment: 2022-2023 | Assignment - Written - G Question <br> \#6 (sine/cosine) <br> G Question \#7(sine/cosine) <br> G Question \#8 (tangent/cotangent) <br> G Question \# 9 (secant/cosecant) <br> G Question \#10 (conic) <br> G Question \#11 (polar) <br> G Question \#12 (parametric) <br> Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 56% 44% 89% 50% 50% 83% 67% (01/23/2019)``` |  |
| Vectors and use vectors to solve realworld problems - Perform operations with vectors and use vectors to solve real-world problems <br> Course Outcome Status: Active <br> Next Assessment: 2020-2021 <br> Start Date: 06/20/2016 | Assignment - Written - F Question \#13 <br> 7 \& 8 Question \# 7 <br> Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 28% 82% (01/23/2019)``` |  |
| Trigonometric equations and right or oblique triangles - Solve <br> trigonometric equations and right or oblique triangles <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | Assignment - Written - F Question <br> \#10 (right triangle) <br> F Question \#11 (trigonometric) <br> F Question \#13 (oblique) <br> Criterion: NA | ```Reporting Period: 2017-2018 Criterion Met: N/A 83% 0% 28% (01/23/2019)``` |  |
| Complex numbers in trigonometric form and perform operations - <br> Express complex numbers in trigonometric form and perform operations with them <br> Course Outcome Status: Active <br> Next Assessment: 2022-2023 | Assignment - Written - F Question \#14 <br> 7 \& 8 Question \#9 <br> Criterion: NA | Reporting Period: 2017-2018 <br> Criterion Met: N/A <br> 67\% correct <br> $82 \%$ correct (01/23/2019) |  |

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## Actions

"Deeper Dive" exercises to the modules in WebCampus. These will be low-risk assessments that will further explore the material covered in the lectures. I am going to redo the lectures for the trigonometry portion. I do not think I am communicating clearly there. I will also add some noncomputerized graphing assessments. I think having to graph on the computer enables students to miss some of the nuances of graphing. In addition, I will add more videos that illustrate how to graph in our homework management system.
(01/23/2019)


[^0]:    Arithmetic and geometric sequences

