

Student: \_\_\_\_\_

**R D C**

**Changed Outcome**

<b>Outcomes Checklist</b>				
<b>GCO A: Students will demonstrate Number Sense and Apply Number Theory Concepts.</b>				
A1 demonstrate an understanding of irrational numbers in applications				
A3 demonstrate an understanding of the application of random numbers to statistical sampling				
A4 demonstrate an understanding of the conditions under which matrices have identities and inverses				
A5 demonstrate an understanding of properties of matrices and apply them				
<b>GCO B: Students will demonstrate operation sense and apply operation principles and procedures in both numeric and algebraic situations.</b>				
B1 demonstrate an understanding of the relationship between operations on fractions and rational algebraic expressions				
B2 demonstrate an understanding of the relationship between operations on algebraic and matrix equations				

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B4	use the calculator correctly and efficiently			
B5	analyze and apply the graphs of the sine and cosine functions			
B6	derive and analyze the Law of Sines, Law of Cosines, and the formula for the area of triangle $ABC = \frac{1}{2} bc \sin A$			
B11	develop and apply the procedure to obtain the inverse of a matrix			
B13	solve systems of equations using inverse matrices			
B12 (adv.)	derive and apply the procedure to obtain the inverse of a matrix			
B14 (adv.)	determine the equation of a plane given three points on the plane			
B15	solve systems of 'm' equations in 'n' variables with and without technology			
<b>GCO C: Students will explore, recognize, and apply patterns and relationships, both formally and informally.</b>				
C1	model situations with sinusoidal functions			
C2	create and analyze scatter plots of periodic data			
C3	determine the equation of sinusoidal functions			

C4 (adv.) determine the equation of sinusoidal functions expressed in radians				
C5 determine quadratic functions using systems of equations				
C8 demonstrate an understanding of real-world relationships by translating between graphs, tables, and written descriptions				
C9 analyze tables and graphs of various sine and cosine functions to find patterns, identify characteristics and determine equations				
C10 (adv.)analyze tables and graphs of various sine and cosine functions to find patterns, identify characteristics and determine equations expressed in radians				
C12 interpret geometrically the relationships between equations in systems				
C13 demonstrate an understanding that an equation in 3 variables describes a plane				
C14 demonstrate an understanding of the relationships between equivalent systems of equations				
C15 demonstrate an understanding of sine and cosine ratios and functions for non-acute angles				

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C16 (adv.)demonstrate an understanding of sine and cosine ratios and functions for non-acute angles expressed in radians				
C17 (adv.)solve problems by determining the equation for the curve of best fit using sinusoidal regression				
C18 interpolate and extrapolate to solve problems				
C19 solve problems involving systems of equations				
C21 describe how various changes in the parameters of sinusoidal equations affect their graphs				
C22 (adv.)describe how various changes in the parameters of sinusoidal equations, expressed in radians, affect their graphs				
C23 identify periodic relations and describe their characteristics				
C24 derive and apply the reciprocal and Pythagorean identities				
C25 prove trigonometric identities				
C27 apply function notation to trigonometric equations				
C28 analyze and solve trigonometric equations with and without technology				

C29 (adv.)analyze and solve trigonometric equations with and without technology, expressing the solution in radians				
C30 demonstrate an understanding of the relationship between solving algebraic and trigonometric equations				
<b>GCO D: Students will demonstrate an understanding of and apply concepts and skills related to measurement.</b>				
D1 derive, analyze, and apply angle and arc length relationships				
D2 demonstrate an understanding of the connection between degree and radian measure and apply them				
D3 apply sine and cosine ratios and functions to situations involving non-acute angles				
D5 apply the Law of Sines, the Law of Cosines, and the formula 'area of a triangle $ABC = bc \sin A$ ' to solve problems				
<b>GCO E: Students will demonstrate spatial sense and apply geometric concepts, properties and relationships</b>				
E1 demonstrate an understanding of the position of axes in 3-space				

E2	locate and identify points and planes in 3-space			
<b>GCO F: Students will solve problems involving the collection, display, and analysis of data</b>				
F1	draw inferences about a population based on a sample			
F2	identify bias in data collection, interpretation, and presentation			
F4	demonstrate an understanding of how sample size affects the variation in sample results			
F6 (adv.)	explore periodic data to determine the equations of sinusoidal curves using regression analysis			
F7	draw inferences from graphs, tables, and reports			
F8	apply characteristics of normal distributions			
F9	demonstrate an understanding of the difference between sample standard deviation and population standard deviation			
F10	interpret and apply histograms			
F11	determine, interpret and apply confidence intervals			
F14	distinguish between descriptive and inferential statistics			

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F15 design and conduct surveys and/or simulate data collection to explore variability				
F16 demonstrate an understanding of the difference between situations that involve a binomial experiment and those that do not				
F18 identify the characteristics of a binomial experiment				
F19 (adv.) demonstrate an understanding of the differences in the quality of sampling methods				
F20 (adv.) demonstrate an understanding of how a confidence level affects a confidence interval				
F21 demonstrate an understanding of the role of the Central Limit Theorem in the development of confidence intervals				
F22 distinguish between the calculation of confidence intervals for a known population mean versus an unknown population mean				
<b>GCO G: Students will represent and solve problems involving uncertainty.</b>				
G3 graph and interpret sampling distributions of the sample mean				