Student's Name_____ **Course Name** **Mathematics 3206 based on August 2001 Interim Guide**

R - retain, D - delete, C - changed

Outcomes		**R**	**D**	**C**	**Changed Outcome**
GCO A:	**Students will deomonstrate number sense and apply number theory concepts.**				
A1	Demonstrate an understanding of and apply zero and negative exponents				
A2	Develop, demonstrate an understanding of, and apply properties of exponents				
A3	Demonstrate an understanding of the role of irrational numbers in applications				
A6	Develop an understanding of factorial notation and apply it to calculating permutations and combinations				
A7	Describe and interpret domains and ranges using set notation				
A8	Demonstrate an understanding of the exponential growth of compound interest				
GCO B:	**Students will demonstrate operation sense and apply operation principles and procedures in both numeric and algebraic situations**				
B1	Demonstrate an understanding of the relationships that exist between arithmetic operations and the operations used when solving equations				
B3	Apply the quadratic formula				

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Outcomes		R	D	C	Changed Outcome
B5	Demonstrate an understanding of and apply compound interest				
B6	Determine the amount and present value of annuities				
B7	Calculate probabilities to solve problems				
B8	Determine probabilities using permutations and combinations				
B9	Perform operations on algebraic expressions and equations				
GCO C:	**Students will explore, recognize, and apply patterns and relationships, both formally and informally.**				
C1	Model real-world phenomena using quadratic equations				
C4	Demonstrate an understanding of patterns that are arithmetic, power, and geometric				
C5	Determine and describe patterns and use them to solve problems				
C6	Explore, describe and apply the Fibonacci sequence				
C7	Relate arithmetic patterns to linear relations				
C8	Describe and translate between graphical, tabular, and written representations of quadratic relationships				
C11	Describe and translate between graphical, tabular, and written representations of exponential relationships				

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Outcomes	**R**	**D**	**C**	**Changed Outcome**
C12 describe and apply the characteristics of quadratic relationships				
C13 Describe and apply the characteristics of exponential relationships				
C14 Determine and interpret x-intercepts of quadratic functions				
C21 Create and analyze scatter plots, and determine equations for the curves of best fit using appropriate technology				
C23 Solve problems involving quadratic equations				
C25 Solve problems involving exponential equations				
C26 Solve problems that require the application of compound interest				
C29 Analyse tables and graphs to distinguish between linear, quadratic, and exponential relationships				
GCO D: Students will demonstrate an understanding of and apply concepts and skills related to measurement				
D2 Determine midpoints and the length of line segments using coordinate geometry				
GCO E: Students will demonstrate spatial sense and apply geometric concepts, properties and relationships				

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Outcomes		**R**	**D**	**C**	**Changed Outcome**
E1	Perform geometric constructions and analyze the properties of the resulting figures				
E2	Describe and apply symmetry				
E5	Apply inductive reasoning to make conjectures in geometric situations				
E6	Explore, make conjectures about, and apply centers of circles				
E7	Explore, make conjectures about, and apply chord properties in circles				
E8	Explore, make conjectures about, and apply angle relationships in circles				
E10	Present informal deductive arguments				
GCO F	**Students will solve problems involving the collection, display, and analysis of data**				
F1	Analyse, determine and apply				
F2	Use curve fitting to determine the equations of exponential relationships				
F3	Use curve fitting to determine the equations of quadratic relationships				
F4	Interpolate and extrapolate to predict and solve problems scatter plots and determine the equations for curves of best fit, using appropriate technology				

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Outcomes		**R**	**D**	**C**	**Changed Outcome**
GCO G:	**Students will represent and solve problems involving uncertainty**				
G1	Develop and apply simulations to solve problems				
G2	Demonstrate an understanding that determining probability requires the quantifying of outcomes				
G3	Demonstrate an understanding of the fundamental counting principle, and apply it to calculate probabilities of dependent and independent events				
G4	Apply area diagrams and tree diagrams to interpret and determine probabilities of dependent and independent events				
G6	Demonstrate an understanding of the difference between probability and odds				
G7	Distinguish between situations that involve permutations and combinations				