CAN COURSE NUMBER AND TITLE: MATH 2	NEW CAN COURSE TITLE:
Introduction to Mathematical Reasoning	Introduction to Mathematical Reasoning
DESCRIPTION: An elementary introduction to mathematics, emphasizing the deductive process; concepts of contemporary mathematics; primarily for liberal arts students. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 3 semester units or 4 quarter units.	MODIFIED DESCRIPTION : An elementary introduction to mathematics, emphasizing the deductive process; concepts of contemporary mathematics; primarily for liberal arts students. Prerequisites: Geometry, and Intermediate Algebra (Algebra II). At least 3 semester units or 4-quarter units.
Prerequisite(s): ■Yes □No	Prerequisite Course Titles: Geometry, and Intermediate Algebra (Algebra II). At least 3 semester units or 4-quarter units.
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements □ Yes ■ No	Meets Major Preparation requirements □Yes ■ No
Conditions:	110
Conditions:	
CAN COURSE NUMBER AND TITLE: MATH 4	NEW CAN COURSE TITLE:
Mathematics for Elementary School Teaching	Mathematics for Elementary School Teaching
DESCRIPTION: Development and structure of the real number system and its subsystems; elementary concepts of set theory, relations, and operations; inductive reasoning including patterns and sequences; deductive reasoning; logic. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 3 semester units or 4 quarter units.	MODIFIED DESCRIPTION : Structure of the real number system and its subsystems; elementary concepts of set theory, relations, and operations; inductive reasoning including patterns and sequences; deductive reasoning; logic. Prerequisites: c
Prerequisite(s): ☐ Yes ☐ No	Prerequisite Course Titles: Geometry, and Intermediate Algebra (Algebra II). At least 3 semester units or 4 quarter units.
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements □Yes □No Conditions:	Meets Major Preparation requirements □Yes □ No
Continues.	

TED DESCRIPTION: The trigonometric functions, their and identities; laws of sines and cosines; solutions of triangles; metric equations; inverse trigonometric functions; polar ates. Prerequisites: Geometry, and Intermediate Algebra a II). At least 3 semester units or 4 quarter units. This is the Course Titles: Try, and Intermediate Algebra (Algebra II). At least 3 semester
4 quarter units.
uisite Course Titles:
Iajor Preparation requirements □Yes □ No
AN COURSE TITLE: Algebra
TED DESCRIPTION : Polynomial, rational exponential, and mic functions; matrices, and determinants; analytic geometry, atical induction. Prerequisites: Geometry, and Intermediate (Algebra II). At least 3 semester units or 4 quarter units.
disite Course Titles: Geometry, and Intermediate Algebra a II). At least 3 semester units or 4 quarter units.
uisite Course Titles:
Iajor Preparation requirements □Yes □ No

CAN COURSE NUMBER AND TITLE: MATH 12 Finite Mathematics	NEW CAN COURSE TITLE: Finite Mathematics
DESCRIPTION: Sets, matrices, and systems of equations and inequalities; linear programming; combinatorial techniques, and introduction to probability; mathematics of finance; primarily for business, social, and behavioral science majors. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 3 semester units or 4 quarter units.	MODIFIED DESCRIPTION : Sets, matrices, and systems of equations and inequalities; linear programming; combinatorial techniques, and introduction to probability; mathematics of finance; primarily for business, social and behavioral science majors. Prerequisites: Intermediate Algebra (Algebra II). At least 3 semester units or 4 quarter units.
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles: Intermediate Algebra (Algebra II). At least 3 semester units or 4 quarter units.
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ☐ No	Meets Major Preparation requirements i Yes i No
Conditions:	
CAN COURSE NUMBER AND TITLE:MATH 16 Pre-Calculus	NEW CAN COURSE TITLE: Pre-Calculus
DESCRIPTION: Preparation for calculus; polynomial, rational, exponential, logarithmic, and trigonometric functions; analytic geometry; mathematical induction. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 4 semester units or 5 quarter units.	MODIFIED DESCRIPTION : Preparation for calculus; polynomial, rational, exponential, logarithmic, and trigonometric functions; analytic geometry; mathematical induction. Prerequisites: Geometry, Intermediate Algebra (Algebra II). At least 4 semester units or 5 quarter units.
Prerequisite(s): □ Yes □ No	Prerequisite Course Titles: Geometry, Intermediate Algebra (Algebra II). At least 4 semester units or 5 quarter units.
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ☐ No	Meets Major Preparation requirements □Yes □ No
Conditions:	

CAN COURCE NUMBER AND THE E. MATH 15	NEW CAN COURSE THE E.
CAN COURSE NUMBER AND TITLE: MATH 17	NEW CAN COURSE TITLE:
Calculus, 1 st quarter	Calculus, 1 st quarter
DESCRIPTION: Introduction to differential and integral calculus;	MODIFIED DESCRIPTION: Introduction to differential and integral
functions, limits, and continuity; techniques and applications of	calculus; functions, limits, and continuity; techniques and applications
differentiation. Primarily for mathematics, physical science, and	of differentiation. Prerequisite: CAN MATH 16 or equivalent. (CAN
engineering majors. Prerequisite: CAN MATH 16 or equivalent. 4 quarter	MATH 8 and 10). At least 4 quarter units.
units.	
Prerequisite(s): ☐ Yes ■No	Prerequisite Course Titles: CAN MATH 16 or equivalent. (CAN
	MATH 8 and 10). At least 4 quarter units.
Co-Requisite(s): ☐ Yes ☐ No	Co-Requisite Course Titles:
Meets General Education requirements	Meets Major Preparation requirements
□ Yes □No	□Yes □ No
Conditions:	
CAN COURSE NUMBER AND TITLE: MATH 18	NEW CAN COURSE TITLE:
Calculus, 1 st semester	Calculus, 1st semester
DESCRIPTION: Introduction to differential and integral calculus;	MODIFIED DESCRIPTION: Introduction to differential and integral
functions, limits, and continuity; techniques and applications of	calculus; functions, limits, and continuity; techniques and applications
differentiation; the Fundamental Theorem of Calculus. Primarily for	of differentiation; the Fundamental Theorem of Calculus. Prerequisite:
mathematics, physical science, and engineering majors. Prerequisite:	CAN MATH 16 or equivalent. (CAN MATH 8 and 10) At least 4
CAN MATH 16 or equivalent. 4 semester units	semester units.
Prerequisite(s): ☐ Yes ■No	Prerequisite Course Titles: CAN MATH 16 or equivalent. (CAN
	MATH 8 and 10) At least 4 semester units.
Co-Requisite(s): Î Yes Î No	Co-Requisite Course Titles:
Meets General Education requirements	Meets Major Preparation requirements
\square Yes \square No	□ Yes î No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 19 Calculus, 2 nd quarter	NEW CAN COURSE TITLE: Calculus, 2 nd quarter
DESCRIPTION: Continuation of differential and integral calculus with applications; techniques of integration. Primarily for mathematics, physical science, and engineering majors. Prerequisite: CAN MATH 17. 4 quarter units.	MODIFIED DESCRIPTION : Continuation of differential and integral calculus with applications; techniques of integration. Fundamental theorem of calculus. Prerequisite: CAN MATH 17. At least 4 quarter units.
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles: CAN MATH 17. At least 4 quarter units.
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements ☐ Yes ☐ No
Conditions:	
CAN COURSE NUMBER AND TITLE: MATH 20 Calculus, 2 nd semester	NEW CAN COURSE TITLE: Calculus, 2 nd semester
Calculus, 2 nd semester DESCRIPTION: Continuation of differential and integral calculus with applications; techniques of integration; infinite series and sequences. Primarily for mathematics, physical science, and engineering majors.	Calculus, 2 nd semester MODIFIED DESCRIPTION: Continuation of differential and integral calculus with applications; techniques of integration; infinite series and sequences. Prerequisite: CAN MATH 18. At least 4
Calculus, 2 nd semester DESCRIPTION: Continuation of differential and integral calculus with applications; techniques of integration; infinite series and sequences. Primarily for mathematics, physical science, and engineering majors. Prerequisite: CAN MATH 18. 4 semester units.	Calculus, 2 nd semester MODIFIED DESCRIPTION: Continuation of differential and integral calculus with applications; techniques of integration; infinite series and sequences. Prerequisite: CAN MATH 18. At least 4 semester units. Prerequisite Course Titles: CAN MATH 18. At least 4 semester

CAN COURSE NUMBER AND TITLE: MATH 21	NEW CAN COURSE TITLE:
Calculus, 3 rd quarter	Calculus, 3 rd quarter
	MODIFIED DESCRIPTION: Continuation of differential and integral calculus with applications; infinite sequences and series. Prerequisite: CAN MATH 19. At least 4 quarter units.
Prerequisite(s): \square Yes \square No	Provequisite Course Titles CAN MATIL 10 At least 4 questes units
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles: CAN MATH 19. At least 4 quarter units.
	Co-Requisite Course Titles: CAN MATH 19. At least 4 quarter units.
Co-Requisite(s): ☐ Yes ☐ No	1

CAN COURSE NUMBER AND TITLE: MATH 22 Calculus, 3 rd semester	NEW CAN COURSE TITLE: Calculus, 3 rd semester
DESCRIPTION: Vector-valued functions; calculus of functions of more than one variable, partial derivatives, multiple integration; Green's theorem, Strokes' theorem, and the divergence theorem. Prerequisite: CAN MATH 20. 4 semester units.	MODIFIED DESCRIPTION : Vector-valued functions; calculus of functions of more than one variable, partial derivatives, multiple integration; Green's theorem, Stokes' theorem, and the divergence theorem. Prerequisite: CAN MATH 20. At least 4 semester units.
Prerequisite(s): ■ Yes □ No	Prerequisite Course Titles: CAN MATH 20. At least 4 semester units.
Co-Requisite(s): ☐ Yes ☐ No	Co-Requisite Course Titles:
Meets General Education requirements ■Yes □No	Meets Major Preparation requirements ■ Yes □ No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 23	NEW CAN COURSE TITLE:
Calculus, 4 th quarter	Calculus, 4 th quarter
DESCRIPTION: Vector-valued functions; calculus of functions of more than one variable, partial derivatives, multiple integration; Green's theorem, Strokes' theorem, and the divergence theorem. Primarily for mathematics, physical science, and engineering majors. Prerequisite: CAN MATH 21. 4 semester units.	MODIFIED DESCRIPTION : Vector-valued functions; calculus of functions of more than one variable, partial derivatives, multiple integration; Green's theorem, Stokes' theorem, and the divergence theorem. Prerequisite: CAN MATH 21. At least 4 quarter units.
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles: CAN MATH 21. At least 4 quarter units.
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements □Yes ■No	Meets Major Preparation requirements □Yes ■ No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 24 Differential Equations	NEW CAN COURSE TITLE Differential Equations
DESCRIPTION: First and second order ordinary differential equations; linear differential equations; Laplace transforms. Prerequisite: CAN MATH 20/21. 3 semester units or 4 quarter units.	MODIFIED DESCRIPTION : First and second order ordinary differential equations; linear differential equations; topics from Laplace transforms, systems of differential equations, numerical methods, or series to O.D.E. Prerequisite: CAN MATH 20/21. At least 3 semester units or 4 quarter units.
Prerequisite(s): ☐ Yes ■No	Prerequisite Course Titles: CAN MATH 20/21. At least 3 semester units or 4 quarter units.
Co-Requisite(s): ☐ Yes ☐ No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements □Yes ■ No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 26 Linear Algebra	NEW CAN COURSE TITLE: Linear Algebra
DESCRIPTION: Matrices and linear transformations; vector spaces; determinants; eigenvalues and eigenvectors. Prerequisite: CAN MATH 17/18. 3 semester units or 4 quarter units.	MODIFIED DESCRIPTION : Vector spaces; matrices and linear transformations; linear independence basis determinants; eigenvalues and eigenvectors. Prerequisite: CAN MATH 20/21. At least 3 semester units or 4 quarter units.
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles: CAN MATH 20/21. At least 3 semester units or 4 quarter units.
Co-Requisite(s): □Yes □No	Co-Requisite Course Titles:
Meets General Education requirements □Yes ■No	Meets Major Preparation requirements □Yes ■ No
Conditions:	
CAN COURSE NUMBER AND TITLE: MATH 26	NEW CAN COURSE TITLE:
Calculus for the Life and Social Sciences, 1st quarter	Calculus for the Life and Social Sciences, 1st quarter
DESCRIPTION: Concepts of function and limit; techniques of differentiation and integration with applications. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 3 quarter units.	MODIFIED DESCRIPTION : Concepts of function and limit; applied calculus emphasizing techniques of differentiation and integration for Life and Social Sciences. Prerequisites: CAN MATH 10 or 16. Algebra (Algebra II). At least 3 quarter units.
Prerequisite(s): ☐ Yes ■No	Prerequisite Course Titles:
Co-Requisite(s): ☐ Yes ■ No	Co-Requisite Course Titles:
Meets General Education requirements □ Yes ■No	Meets Major Preparation requirements ☐ Yes 1 No

Conditions:

CAN COURSE NUMBER AND TITLE: MATH 30 Calculus for the Life and Social Sciences, 1st semester	NEW CAN COURSE TITLE: Calculus for the Life and Social Sciences, 1 st semester
DESCRIPTION: Concepts of function and limit; techniques of differentiation and integration with applications. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 3 semester units.	MODIFIED DESCRIPTION : Concepts of function and limit; applied calculus emphasizing techniques of differentiation and integration with applications for Life and Social Sciences. Prerequisites: CAN 10 or 16. Algebra (Algebra II). At least 3 semester units.
Prerequisite(s): □ Yes □ No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements □Yes ■ No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 31 Calculus for the Life and Social Sciences, 2 nd quarter	NEW CAN COURSE TITLE: Calculus for the Life and Social Sciences, 2 nd quarter
DESCRIPTION: Continuation of first quarter course; partial differentiation and extremum problems. Prerequisite: CAN MATH 29. 3 quarter units.	MODIFIED DESCRIPTION : Continuation of first quarter course; partial differentiation and extremum problems. Prerequisite: CAN MATH 29. At least 3 quarter units.
Prerequisite(s): ☐ Yes ■No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements □ Yes □ No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 32	NEW CAN COURSE TITLE:
Calculus for the Life and Social Sciences, 2 nd semester	Calculus for the Life and Social Sciences, 2 nd semester
DESCRIPTION: Continuation of first semester course; partial differentiation and extremum problems; multiple integrals. Prerequisite: CAN MATH 30. 3 semester units.	MODIFIED DESCRIPTION : Continuation of first semester course; partial differentiation and extremum problems; multiple integrals. Prerequisite: CAN MATH 30. At least 3 semester units.
Prerequisite(s): ☐ Yes ■No	Prerequisite Course Titles:
Co-Requisite(s): Î Yes Î No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements ☐ Yes î No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 33 Calculus for the Life and Social Sciences, 2 nd semester	NEW CAN COURSE TITLE: Calculus for the Life and Social Sciences, 2 nd semester
DESCRIPTION: Continuation of second quarter course; multiple integrals. Prerequisite: CAN MATH 31. 3 quarter units.	MODIFIED DESCRIPTION : Continuation of second quarter course; multiple integrals; Prerequisite: CAN MATH 31. At least 3 quarter units.
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements ☐ Yes ■No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH 34	NEW CAN COURSE TITLE:
Calculus for Business	Calculus for Business
DESCRIPTION: Concepts of function and limit; applied calculus emphasizing techniques of differentiation and integration for business applications; partial derivatives. Prerequisites: Algebra I, Geometry, and Intermediate Algebra (Algebra II). 3 semester units or 4 quarter units.	MODIFIED DESCRIPTION : Continuation of function and limit; applied calculus emphasizing techniques of differentiation and integration for business application; partial derivatives. Prerequisites: CAN MATH 10 or 16. (Algebra II). At least 3 semester units or 4 quarter units.
Prerequisite(s): \Box Yes \Box No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements □Yes □ No
Conditions:	
CAN COURSE NUMBER AND TITLE: MATH SEQ B Sum of the content of CAN MATH 17+19+21 or CAN MATH 18+20	NEW CAN COURSE TITLE: Unchanged
DESCRIPTION: Sum of the content of CAN MATH 17+19+21 or CAN MATH 18+20	MODIFIED DESCRIPTION:
Prerequisite(s): \Box Yes \Box No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements □Yes □ No
Conditions:	

CAN COURSE NUMBER AND TITLE: MATH SEQ C Sum of the content of CAN MATH 17+19+21+23 or CAN MATH 18+20+22	NEW CAN COURSE TITLE: Unchanged
DESCRIPTION: Sum of the content of CAN MATH 17+19+21+23 or CAN MATH 18+20+22	MODIFIED DESCRIPTION:
Prerequisite(s): \square Yes \square No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	Meets Major Preparation requirements □Yes □ No
Conditions:	
CAN COURSE NUMBER AND TITLE: MATH SEQ D Sum of the content of CAN MATH 29+31+33 or CAN MATH 30+32	NEW CAN COURSE TITLE: Unchanged
DESCRIPTION: Sum of the content of CAN MATH 29+31+33 or CAN MATH 30+32	MODIFIED DESCRIPTION:
Prerequisite(s): □ Yes □ No	Prerequisite Course Titles:
Co-Requisite(s): \square Yes \square No	Co-Requisite Course Titles:
Meets General Education requirements ☐ Yes ■No	
Conditions:	