			Double		1
		C-ID	Counted for		
Title	C-ID Units	Designation	GE	CSUEB Course	Units
Single Variable Calculus I – Early Transcendentals	Math 210	4			
Or	or				
Single Variable Calculus I – Late Transcendentals	Math 211				
Single Variable Calculus II – Early Transcendentals	Math 220	4			
Or	or				
Single Variable Calculus II – Late Transcendentals	Math 221				
Multivariable Calculus	Math 230	4			
OR					
Single Variable Calculus Sequence (2 sem/3 quarters)	Math 900S	≥8			
Or Single Variable Calculus I – Early	or Math 210				
Transcendentals	IVIALII 210				
And	and				
Single Variable Calculus II – Early	Math 220				
Transcendentals Or	0.5				
Single Variable Calculus I – Late	or Math 211				
Transcendentals					
And	and				
Single Variable Calculus II – Late Transcendentals	Math 221				
Multivariable Calculus	Math 230	4			
OR	IVIALIT 230				
Single Variable and Multivariable Calculus		≥12			
Sequence (3 sem/4 quarters)		=12			
Change a mainime up of Counity from halour	with at least 2 w	nita fuana			
Choose a minimum of 6 units from below Group A.	with at least 3 u	ilits iroili			
Group A Provides Depth of understanding in subject major					
Ordinary Differential Equations	Math 240	3			
Introduction to Linear Algebra	Math 250	3			
OR					
Differential Equations and Linear Algebra	Math 910S	5			
Group B Expands application of discipline					
Discrete Math	Math 160	3			
Calculus-Based Physics for Scientists and Engineers: A (Any course articulated as preparation for the physics major at a CSU)	Physics 205	4			
Mathematical Computing Systems	See sample.	1			
Computer Programming	rticulated prepara	3			
Proof	See sample.	3			

Mathematics ADT to BS – Mathematics

Introduction to Statistics	Math 110	3		
TOTAL MAJOR UNITS		18		
CSU GE Requirements		39		
Double Counting GE		4		
Elective		7*		
Total Units		60		

^{*}Can be used to fulfill CSU American Institutions or any additional major requirements

ho	GRADUATION REQUIREMENTS These should wever if not taken at the Community College		
	US History, Constitution		
First Category US-1		The first of the f	0-3
Second Category US-2			0-3
Third Category US-3			0-3
Third Category 03-3		Tablituda	
		Total Units	0-9
		al Education pattern must have a topic/learning outcomes (SI), or Sustainability (S).	omeoriented
Upper Division GE/Overlay	Courses	Overlay	Units
GE-UD-B			
GE-UD-C			
GE-UD-D			
		Total Units	
		Total office	
University Writing Requirement	Course	GE/Overlay	Units
UWR			
		Total Units	
		Total Cities	
Upper Division Core	Course	GE/Overlay	Units
	oper-division courses for 18 units:	22,000.104	0165
MATH 300	Introduction to Mathematical Proof		
MATH 305	Mathematical Software		
MATH 310	Linear Algebra Theory		
MATH 320	Abstract Algebra I		
MATH 330	Analysis I		
MATH 493	Senior Seminar		
		Total Units	1
Applied Mathematics Coursework	Course	GE/Overlay	Units
Choose two (2) courses fro			
Course Name MATH 370	Units:		
MATH 380	Numerical Analysis I Linear Programming		
WATT 300	Linear and Nonlinear Systems of Differential		
MATH 385	Equations		
		Total Units	
Theoretical Mathematics Coursework	Course	GE/Overlay	Units
Choose two (2) courses fro	m the following for 6 units:		
MATH 321	Abstract Algebra II		
MATH 331	Analysis II		
MATH 340	Modern Geometry		
		Total Units	
Flootive Courses	Course	GE/Overlay	Units
Elective Courses	urses from the following for 6 units:	GL/ Overlay	Omis

Mathematics ADT to BS – Mathematics

MATH 310	Linear Algebra Theory		31
	,		
MATH 360	Number Theory		3
MATH 450	Combinatorics		3
MATH 497	Topics in Advanced Mathematics		3
Or any upper-division mathematics course(s) NOT used to fulfill other major requirements, except MATH 318.			
STAT 316	Statistics and Probability for Science and Engineering		3
		Total Units	6
ADDITIONAL COURSE(S) to	MEET 60 UNITS	GE/Overlay	Units
These courses may be addi	tional major courses or prerequisites taker	at the Community College.	
Free Elective Elective			12
		Total Units	12
		Grand Total:	60

FIRST SEMESTER (FALL)					
UD-B/Overlay			3		
UD Major	MATH 300	Introduction to Mathematical Proof	3		
UD Major	MATH 305	Mathematical Software	3		
Free Elective			3		
UWR			3		
		Total:	15		
	SECOND	SEMESTER (SPRING)			
UD Major	MATH 310	Linear Algebra Theory	3		
UD Major	MATH 320	Abstract Algebra I	3		
UD Major	MATH		3		
UD Major	MATH		3		
UD-C/Overlay			3		
		Total :	15		
	THIRD	SEMESTER (FALL)			
UD Major	MATH 330	Analysis I	3		
UD Major	MATH		3		
UD Major	MATH		3		
UD-D/Overlay			3		
Free Elective			3		
		Total:	15		
	FOURTH	SEMESTER (SPRING)			
UD Major	MATH 493	Senior Seminar	3		
UD Major	MATH		3		
UD Major	MATH		3		
Free Elective			3		
Free Elective			3		
		Total:	15		
		Grand Total:	60		
Updated 4/1/2024					