Requirement Area	Course	Degree: Mathematics, B.S. 25-26 Course Title	Prerequisites	Units
	Course	First Semester (FALL)	Trerequisites	Oilies
Recommended	SCI 130	Connecting to STEM Majors		
1C	COMM 100	Communication		
5A/5C	CONNIN 100	Physical Science/Laboratory Activity		
ЗА		Arts		
<i></i>		7110	One from the following: Satisfactory	
			score of 78 or higher on Mathematics	
			Placement Exam, MATH 120 or MATH	
			125 (either course with grade C- or	
Area 2/LD Major	MATH 130	Calculus I	better).	<b>!</b>
			Total:	1
	T	Second Semester (SPRING)	1	П
1A		Written Communication		
3B		Humanities		
Area 4/Code 1		Social Science		
5B/5C		Life Science/Laboratory Activity		
LD Major	MATH 131	Calculus II	MATH 130 with grade C- or better.	
LD IVIAJOI	IVIAITI 131	Calculus II	Total:	1
			Total.	-
		Third Semester (FALL)		
Free Elective		Time Schieder (IALL)		
1B/Second Comp				
, sassing comp			1	
Area 4/Code 2		U.S. Code/Socical Science		
LD Major	MATH 230	Calculus III	MATH 131 with grade C- or better.	
Free Elective			9	
riee Liective			Total:	1
		Fourth Semester (SPRING)	_	
LD Major	MATH 215	Introduction to Linear Algebra	MATH 130.	
LD Major	MATH 285	Introduction to Differential Equations		
UD Major	MATH 300	Introduction to Mathematical Proof	MATH 131 with grade C- or better.	
UD Major	MATH 305	Math Software	MATH 131 with grade C- or better.	
Area 6		Ethnic Studies		
			Total:	1
		Fifth Semester (FALL)		
			MATH 210/215, MATH 300 with grade	
UD Major	MATH 320	Abstract Algebra I	C- or better.	
	MATH	Applied Mathematics Coursework		
	MATH MATH	Applied Mathematics Coursework  Math Elective		
UD Major		Math Elective	Completion of GE Areas 1A, 1B, 1C and	
UD Major UD-Area 3/overlay			Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	
UD Major UD-Area 3/overlay		Math Elective	GE-2 with grade C- (CR) or better	
UD Major UD-Area 3/overlay		Math Elective  UD Arts/Humanities		
UD Major UD-Area 3/overlay UWR	MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)	GE-2 with grade C- (CR) or better  Total:	1
UD Major  UD-Area 3/overlay  UWR  UD Major		Math Elective  UD Arts/Humanities	GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 3/overlay  UWR  UD Major  UD Major	MATH 330	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I	GE-2 with grade C- (CR) or better  Total:	1
UD Major  UD-Area 3/overlay  UWR  UD Major  UD Major  UD Major	MATH 330 MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective	GE-2 with grade C- (CR) or better  Total:	1
UD Major  UD-Area 3/overlay  UWR  UD Major	MATH 330 MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective	GE-2 with grade C- (CR) or better  Total:  MATH 300	1
UD Major	MATH 330 MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 3/overlay  UWR  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and	1
UD Major  UD-Area 4/Overlay  Free Elective	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD Major  UD Major  UD Major  UD Major  UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
JD Major  JD-Area 4/Overlay  Free Elective  JD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
JD Major  JD-Area 4/Overlay  ree Elective  JD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
UD Major  UD-Area 4/Overlay  Free Elective  UD Major  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	-
UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	-
UD Major  UD-Area 4/Overlay  Free Elective  UD Major  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	
UD Major  UD-Area 4/Overlay  Free Elective  UD Major  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	
UD Major  UD-Area 4/Overlay  Free Elective  UD Major  UD Major  UD Major  UD Major  UD Major	MATH 330 MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	-
JD Major  JD Major  JD Major  JD Major  JD Major  JD Major  JD-Area 4/Overlay  Free Elective  JD Major  JD Major  JD-Area 5/Overlay  Free Elective	MATH 330 MATH MATH MATH MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning  Eighth Semester (SPRING)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:	
UD Major	MATH 330 MATH MATH MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning  Eighth Semester (SPRING)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	-
UD Major  UD-Area 4/Overlay  Free Elective  UD Major	MATH 330 MATH MATH MATH MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning  Eighth Semester (SPRING)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:	-
JD Major  JD-Area 4/Overlay  Free Elective  JD Major  JD Major	MATH 330 MATH MATH MATH MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning  Eighth Semester (SPRING)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:	-
UD Major	MATH 330 MATH MATH MATH MATH MATH	Math Elective  UD Arts/Humanities  Sixth Semester (SPRING)  Analysis I  Math Elective  Applied Mathematics Coursework  UD Social Science  Seventh Semester (FALL)  Theoretical Mathematics Coursework  Math Elective  UD Science Inquiry and Quantitative Reasoning  Eighth Semester (SPRING)	GE-2 with grade C- (CR) or better  Total:  MATH 300  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:  Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better  Total:	-

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

CSUEB General Breadth and Graduation Requirement Checkli	
	st
Area 1 (9 units): English Communication	
☐ 1A - Lower Division English Composition ☐ 1B - Lower Division Critical Thinking and Composition	
☐ 1C - Lower Division Oral Communication  Area 2 (3 units): Mathematical Concepts and Quantitative Reason	ning
☐ Area 2 - Mathematical Concepts and Quantitative Reasoning	,B
Area 3 (6 units): Arts & Humanities - Minimum of two differen	nt
disciplines as designated by course prefix (e.g., ART, THEA, ML	
☐ 3A - Arts and Humanities (Arts)	
☐ 3B - Arts and Humanities (Humanities)	
Area 4 (6 units): Social and Behavioral Sciences - Minimum of t different disciplines as designated by course prefix (e.g., ANTH, E POSC)	
☐ Area 4 - Lower Division Social and Behavioral Sciences	
☐ Area 4 - Lower Division Social and Behavioral Sciences	
Area 5 (7 units): Physical and Biological Sciences	
☐ 5A - Lower Division Physical and Biological Sciences (Physical)	
☐ 5B - Lower Division Physical and Biological Sciences (Biological)	
$\hfill \Box$ 5C - Lower Division Physical and Biological Sciences (Laboratory)	
be embedded in 5A or 5B course, as long as 7 units met for lower-di	vision
Subject Area 5.  Area 6 (3 units): Ethnic Studies	
☐ Area 6 - Ethnic Studies	
	quired
as part of 1B	
for 2025-26 or later catalog)	
□ Second Composition	
University Writing Requirement (3-4 units)	
□ UWR U.S. Code (American Institutions Requirement) - Two courses (6 u	ınitc)
covering three U.S. Code Requirements of US-1 (U.S. History), US-	
Constitution), and US-3 (California State & Local Government	
□ Code 1	
□ Code 2	
Upper Division GE Requirements (9 units): Should be taken aft	er
completion of 1A, 1B, 1C, and Area 2 with a C- (CR)	
☐ UD- Area 3 - Upper Division Arts or Humanities	
☐ UD- Area 4 - Upper Division Social and Behavioral Sciences	
☐ UD- Area 4 - Upper Division Social and Behavioral Sciences ☐ UD- Area 5 - Upper Division Science or Mathematical	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di     and GE or major	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di     and GE or major     □ Diversity (Div)     □ Social Justice (SI)	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di     and GE or major	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di     and GE or major     □ Diversity (Div)     □ Social Justice (SJ)     □ Sustainability (S)  Applied Mathematics Coursework	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units:	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3	vision,
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di     and GE or major     □ Diversity (Div)     □ Social Justice (SJ)     □ Sustainability (S)  Applied Mathematics Coursework  Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3  MATH 380 - Linear Programming Units: 3	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SI) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 380 - Linear and Nonlinear Systems of Differential Equations Units:	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences     □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di     and GE or major     □ Diversity (Div)     □ Social Justice (SJ)     □ Sustainability (S)  Applied Mathematics Coursework  Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3  MATH 380 - Linear Programming Units: 3	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework Choose two (2) courses from the following for 6 units:	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 385 - Linear Programming Units: 3  MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 321 - Abstract Algebra II Units: 3 (*)	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Applied Mathematics Coursework  Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework  Choose two (2) courses from the following for 6 units:  MATH 321 - Abstract Algebra II Units: 3 (*) MATH 331 - Analysis II Units: 3	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SI) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework Choose two (2) courses from the following for 6 units:  MATH 321 - Abstract Algebra II Units: 3 (*)  MATH 331 - Analysis II Units: 3  MATH 340 - Modern Geometry Units: 3 (*)	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SI) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 385 - Linear Programming Units: 3 MATH 385 - Linear Programming Units: 3 MATH 385 - Linear Programming Units: 3 MATH 340 - Modern Geometry Units: 3 (*) MATH 341 - Analysis II Units: 3 MATH 340 - Modern Geometry Units: 3 (*) Elective Courses	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SI) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework Choose two (2) courses from the following for 6 units:  MATH 321 - Abstract Algebra II Units: 3 (*)  MATH 331 - Analysis II Units: 3  MATH 340 - Modern Geometry Units: 3 (*)	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Applied Mathematics Coursework  Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework  Choose two (2) courses from the following for 6 units:  MATH 321 - Abstract Algebra II Units: 3 (*) MATH 331 - Analysis II Units: 3 (*)  MATH 340 - Modern Geometry Units: 3 (*)  Elective Courses  Choose three (3) elective courses from the following for 9 units:	
□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (5J) □ Sustainability (S)  Applied Mathematics Coursework  Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework  Choose two (2) courses from the following for 6 units:  MATH 321 - Abstract Algebra II Units: 3 (*) MATH 340 - Modern Geometry Units: 3 (*)  Elective Courses  Choose three (3) elective courses from the following for 9 units: MATH 310 - Linear Algebra Theory  MATH 360 - Number Theory Units: 3 (*)	
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□ UD- Area 4 - Upper Division Social and Behavioral Sciences □ UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning Overlay Requirements (9 units): Courses may be upper or lower di and GE or major □ Diversity (Div) □ Social Justice (SI) □ Sustainability (S)  Applied Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: Theoretical Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 31 - Abstract Algebra II Units: 3 (*) MATH 321 - Abstract Algebra II Units: 3 MATH 340 - Modern Geometry Units: 3 (*)  Elective Courses Choose three (3) elective courses from the following for 9 units: MATH 310 - Linear Algebra Theory  MATH 360 - Number Theory Units: 3 MATH 497 - Topics in Advanced Mathematics Units: 3 Or any upper-division mathematics course(s) NOT used to fulfill other maj requirements, except MATH 318. STAT 316 - Statistics and Probability for Science and Engineering Units: 3 (*) Making specific course choices within the Math B.S. leads to a certification students applying for a credential program to teach high school	3 (*) or or *) n for
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