MATHEMATICS ADT TO CSU EAST BAY MATHEMATICS BS CHECKLIST/ROADMAP

ADT MATHEMATICS – 60 Sem. Units	Sem. Units	Community College Courses
CSUGE or IGETC	**39**	*CSU general education certification requires completion of all requirements in Areas A through E, approximately 39 units*
AREA D REQUIREMENT: **US History, Constitution & American Ideals Code Requirement**	3-9	**US-1:** **US-2:** **US-3:**
[Diversity/Social Justice/Sustainability](#) *Can be fulfilled in area C or D*	3-9	**DIV:** **SJ:** **SUS:**
Second Composition (Comp II) Can be fulfilled with A3 Any Composition course with ENGL 100 as a prerequisite	3	
The following areas are for the CID TMC/Courses and matching Community College Courses		
Major Core (C-ID)		**Community College Courses**
MATH 210 - Single Variable Calculus I – Early Transcendentals (4)		
MATH 220- Single Variable Calculus II – Early Transcendentals (4)		
MATH 230 - Multivariable Calculus (4)		
LIST A		
MATH 910S - Differential Equations and Linear Algebra (5)		
LIST B		
MATH 110 - Introduction to Statistics (3)		
Total Units ADT *MATHEMATICS*	**60**	

PLEASE NOTE: This page assumes Semester Units.

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CSUEB: MATHEMATICS B.S. *Complete Degree in 60 Semester Units*	Semester UNITS	NOTES
GRADUATION REQUIREMENTS These should be fulfilled at the Community College, however if not taken at the Community College, they must be completed at CSU East Bay		
US History, Constitution & American Ideals	**0-9**	
1) First Category US-1	0-3	
2) Second Category US-2	0-3	
3) Third Category US-3	0-3	
These courses must be taken at CSU East Bay		
Upper Division GE *See catalog*	**9**	**CSUEB COURSES**
Please note: A minimum of three courses in the Upper Division General Education pattern must have a topic/learning outcome oriented toward one of the following topic areas (overlays): **Diversity, Social Justice, or Sustainability**.		
Area B6 Upper Division Science course	3	**Course:** **OVERLAY:**
Area C4 Upper Division Humanities course	3	**Course:** **OVERLAY:**
Area D4 Upper Division Social Sciences course	3	**Course:** **OVERLAY:**
Upper Division Core	**18**	
MATH 300 - Introduction to Mathematical Proof Units: 3	3	
MATH 305 - Mathematical Software Units: 3	3	
MATH 310 - Linear Algebra Theory Units: 3	3	
MATH 320 - Abstract Algebra I Units: 3	3	
MATH 330 - Analysis I Units: 3	3	
MATH 493 - Senior Seminar Units: 3	3	
Applied Mathematics Coursework Choose 2 of the following courses:	**6**	
MATH 370 - Numerical Analysis I Units: 3		
MATH 375 - Differential Equations I Units: 3		
MATH 380 - Linear Programming Units: 3		
Theoretical Mathematics Coursework Choose 2 of the following courses:	**6**	
MATH 321 - Abstract Algebra II Units: 3		
MATH 331 - Analysis II Units: 3		
MATH 340 - Modern Geometry Units: 3		
Electives Choose 2 of the following courses:	**6**	
MATH 360 - Number Theory Units: 3 (*)		
MATH 440 - Topics in Geometry Units: 3		
MATH 450 - Combinatorics Units: 3		
MATH 470 - Numerical Analysis II Units: 3		
MATH 475 - Differential Equations II Units: 3		
MATH 497 - Topics in Advanced Mathematics Units: 3		
Any upper-division mathematics course(s) NOT used to fulfill other major requirements, except MATH 318, 319, 402, 403, or 406.		
Any graduate level Math course		

STAT 316 - Statistics and Probability for Science and Engineering Units: 3		
ADDITIONAL COURSE to reach 60 Units	**15**	*These courses may be additional Major Courses or prerequisites not taken at the Community College*
If needed		
Total Semester Units at CSUEB	**60**	**60**

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FIRST SEMESTER JUNIOR YEAR			
Register to take the University Writing Skills Requirement			
UDGE B6	COURSE:	OVERLAY:	3
CORE	MATH 300	INTRO TO MATHEMATICAL PROOF	3
CORE	MATH 305	MATHMATICAL SOFTWARE	3
ELECT	MATH	CHOOSE 1 FROM LIST	3
ELECT			3
		TOTAL:	*15*
SECOND SEMESTER JUNIOR YEAR			
TAKE THE UNIVERSITY WRITING SKILLS TEST			
UDGE D4	COURSE:	OVERLAY:	3
CORE	MATH 310	LINEAR ALGEBRA THEORY	3
CORE	MATH 320	ABSTRACT ALGEBRA	3
UD APPLIED MATH	MATH	CHOOSE 1 FROM LIST	3
ELECT			3
		TOTAL:	*15*
THIRD SEMESTER SENIOR YEAR			
Verify that you have completed the University Writing Skills Requirement. **Check your MyCSUEB "Degree Audit Report" (DAR) and email any discrepancies to The ADT ADVISER.**			
UDGE C4	COURSE:	OVERLAY:	3
CORE	MATH 330	ANALYSIS I	3
UD APPLIED MATH	MATH	CHOOSE 1 FROM LIST	3
UD THEORETICAL MATH	MATH	CHOOSE 1 FROM LIST	3
ELECT			3
		TOTAL:	*15*
FOURTH SEMESTER SENIOR YEAR			
See the ADT ADVISER and apply for graduation through MyCSUEB by the posted deadline, available at Important Dates			
CORE	MATH 493	SENIOR SEMINAR	3
UD THEORETICAL MATH	MATH	CHOOSE 1 FROM LIST	3
ELECT	MATH	CHOOSE 1 FROM LIST	3
ELECT			3
ELECT			3
		TOTAL:	*15*
		GRAND TOTAL:	**60**