MATHEMATICS MINOR

Natural Sciences, Mathematics, and Engineering (nsme) (https://catalog.csub.edu/general-information/csub-information/school-natural-sciences-mathematics-engineering/)

Mathematics Department (https://catalog.csub.edu/general-information/csub-information/school-natural-sciences-mathematics-engineering/mathematics-department/)

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www.csub.edu/math/ (http://www.csub.edu/math/)

Program Maps for Natural Sciences, Mathematics, and Engineering (https://programmap.csub.edu/academics/interest-clusters/4e942a6e-b8e4-4b60-a1ae-334235acc581/)

Program Requirements

Although no minor is required for the BS degree in Mathematics, a minor in Mathematics is available. The requirement is 16 units.

Code	Title	Units
Minor Requirements [1]		
Lower Division		
Select at least 8 units of lower division courses		8
MATH 2020	Calculus for Biological & Chemical Sciences II	
MATH 2320	Single Variable Calculus II for Engineers	
MATH 2520	Single Variable Calculus II	
MATH 2533	Multivariable and Vector Calculus	
MATH 2540	Ordinary Differential Equations	
Upper Division		
Select at least 8 units of upper division courses		8
MATH 3000	Mathematical Foundations	
MATH 3130	Geometry, Measurement, and Fractions for the Middle Grades	
MATH 3140	Statistics, Data Analysis, and Mathematical Modeling for the Middle Grades	
MATH 3150	Focus on Algebra for the Middle Grades	
MATH 3200	Probability Theory	
MATH 3210	Applied Statistical Computing and Multivariate Methods	
MATH 3300	Numerical Analysis	
MATH 3310	Discrete Mathematical Modeling	
MATH 3400	Euclidean Geometry	
MATH 3500	Complex Variables	
MATH 3520	Analysis I	
MATH 3600	Modern Algebra	
MATH 3620	Abstract Algebra I	
MATH 4110	Introduction to the History of Mathematics	
MATH 4120	Modern Mathematics for Teachers	
MATH 4200	Mathematical Statistics	
MATH 4210	Regression Modeling and Analysis	
MATH 4220	Design and Analysis of Experiments	
MATH 4300	Applied Cryptography	
MATH 4500	Partial Differential Equations	
MATH 4520	Analysis II	
MATH 4600	Number Theory	
MATH 4610	Linear Algebra II	
MATH 4620	Abstract Algebra II	
Total Units		**16**

[1] An upper division course that does not count is MATH 3120 Geometry, Probability, and Statistics for Preservice Elementary Teachers. A minimum of eight upper division units must be completed at California State University, Bakersfield. Only one of these courses can also be counted towards the student's major.