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## MCS CONCENTRATION: MATH

### MATHEMATICAL SCIENCES CONCENTRATION (121 units)

**BSA Math Academic Advisor:**

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#### **Math Sciences Required Courses (85 units)**

(Reasonable substitutions within the core program will be allowed.)

15-110	Introduction to Programming	10 units
21-127	Concepts of Mathematics	9 units
21-228	Discrete Mathematics	9 units
21-241	Matrix Algebra I (or 21-341 Linear Algebra)	9 units
21-259	Calculus in Three Dimensions	9 units
21-260	Differential Equations	9 units
21-355	Principles of Real Analysis I	9 units
21-373	Algebraic Structures	9 units
33-112	Physics for Science Students II	12 units

#### **Math Sciences Electives (2 courses, 18 units)**

Students with a music focus should take 21-372 (Partial Differential Equations).

#### **Math Sciences, Statistics, or Computer Science Electives (2 courses, 18 units)**

May be computer science course above the 100 level, mathematical science courses beyond the calculus sequence, and statistics courses at the level of 36-225 or higher.