

BACHELOR OF ARTS IN MATHEMATICS: CONCENTRATION IN TEACHING – MATH ASSOCIATE DEGREE FOR TRANSFER (ADT) ROADMAP

This is a sample pathway for students who transfer to San Francisco State University in the current Bulletin year with an AS-T in Mathematics. At least 12 units in the major (MATH 226, MATH 227, MATH 228) and all lower-division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (<http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students/>).**

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 30 units minimum at the upper-division level; to include the following:

University-Wide Requirements: 9–15 Units

- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer.
- Upper-Division GE (9 units): Courses required for the major may double-count if approved for UD GE.
- Students entering this major with the AS-T in Mathematics are not required to fulfill SF State Studies requirements.
- Complementary Studies: Consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Mathematics for Teaching Major: 30–33 Units

MATH 226, MATH 227, and MATH 228 met in transfer.

- Core (15 units)
- Concentration (15–18 units)
- Students must meet with a major advisor during their first semester.

University Electives: 12 or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major.

Course	Title	Units
First Semester		
Select One (Major Core):		3
MATH 209	Mathematical Computing	
CSC 101	Introduction to Computing	
CSC 309	Computer Programming	
MATH 301GW	Exploration and Proof - GVAR (Major Core)	3
MATH 325	Linear Algebra (Major Core)	4
GE Area UD-B: Upper-Division Physical and/or Life Sciences		3
University Elective		3
		Units
		16
Second Semester		
MATH 324	Probability and Statistics with Computing (Major Concentration)	3
MATH 350	Geometry (Major Concentration)	3
Select One:		4

CSC 215	Intermediate Computer Programming (if CSC 101 taken)	
University Elective (if MATH 209 or CSC 309 taken)		
GE Area UD-C: Upper-Division Arts and/or Humanities		3
US History (http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#USHaGR) or University Elective if US History met before transfer		3
		Units
		16
Third Semester		
MATH 310	Elementary Number Theory (Major Concentration) ¹	3
MATH 335	Modern Algebra (Major Core)	3
MATH 375	Field Study for Secondary Teachers (Major Concentration) ¹	3
GE Area UD-D: Upper-Division Social Sciences		3
U.S. and California Government (http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg) or University Elective if US/CA Government met before transfer		3
		Units
		15
Fourth Semester		
MATH 370	Real Analysis I (Major Core)	3
MATH 475	Capstone Course for Secondary Teachers of Mathematics (Major Concentration) ²	3
Select One (Major Concentration):		3
MATH 575	Mathematics in the Middle School Classroom	
MATH 576	Math in Middle Schools II	
MATH 577	Math in Middle School III	
University Elective		4
		Units
		13
		Total Units
		60

¹ MATH 310 and MATH 375 are offered in Fall Semesters only.² MATH 475 is offered Spring Semesters only.