BACHELOR OF ARTS IN MATHEMATICS: CONCENTRATION IN MATHEMATICS FOR ADVANCED STUDY – 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 Advanced Study Major: 33-36 Units

MATH 226-MATH 227-MATH 228 met in transfer.

- · Core (15 units)
- · Concentration (18-21 units)

University Electives: 9 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., 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 - GWAR (Major Core)	3
MATH 325	Linear Algebra (Major Core)	4
GE Area UD-B: Upper-Division Physical and/or Life Sciences		3
	Units	13
Second Semester		
MATH 335	Modern Algebra (Major Core)	3
MATH 440	Probability and Statistics I (Major Concentration)	3
Select One:		4

	Total Units	60
	Units	16
University Elective		4
GE Area UD-D: Upper-Division Social Sciences		3
Major Concentration Elective (6 units) - Take One 1		3
MATH 471	Fourier Analysis and Applications	
MATH 470	Real Analysis II: Several Variables	
MATH 450	Topology	
Select One (Major Concentration): ³		3
MATH 380	Introduction to Complex Analysis (Major Concentration) ³	3
Fourth Semester	Units	15
or University Elective if US/CA Government met before transfer	11.5	
U.S. and California Government (http://bulletin.sfsu.edu/undergraduate-educ	cation/american-institutions/#usg)	3
GE Area UD-C: Upper-Division Arts and/or Humanities		3
MATH 435	Modern Algebra II (Major Concentration) ²	3
MATH 370	Real Analysis I (Major Core)	3
MATH 376	Ordinary Differential Equations I	
MATH 310	Elementary Number Theory	
Select One (Major Concentration): ²		3
Third Semester		
	Units	16
or University Elective if US History met before transfer	itations, a contactly	J
US History (http://bulletin.sfsu.edu/undergraduate-education/american-insti	tutions/#IJSHaGR)	3
Major Concentration Elective (6 units) - Take One 1		3
University Elective (if MATH 209 or CSC 309 taken)	CSC 101 taken)	
CSC 215	Intermediate Computer Programming (if CSC 101 taken)	

Major Concentration Elective Course numbered 400 or above (except MATH 475, MATH 565, MATH 576, and MATH 577).

² MATH 310, MATH 376, and MATH 435 offered fall semesters only.

MATH 380, MATH 470, and MATH 471 offered spring semesters only.