

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

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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 Liberal Arts Major: 27–30 Units

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

- Core (13-16 units)
- Concentration (15 units)

### University Electives: 15 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
<b>First Semester</b>		
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 - Take Two		5
		<b>Units</b>
		<b>15</b>
<b>Second Semester</b>		
MATH 335	Modern Algebra (Major Core)	3
Select One (Major Core):		3
MATH 209	Mathematical Computing	
CSC 101	Introduction to Computing	
CSC 309	Computer Programming	
Concentration Elective (15 Units Total) - Take One <sup>1</sup>		3
US History ( <a href="http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#USHaGR">http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#USHaGR</a> ) or University Elective if US History met in transfer		3

University Elective		3
	<b>Units</b>	<b>15</b>
<b>Third Semester</b>		
MATH 370	Real Analysis I (Major Core)	3
Concentration Elective (15 Units Total) - Take One <sup>1</sup>		3
Select One:		4
CSC 215	Intermediate Computer Programming (if CSC 101 taken)	
University Elective (if MATH 209 or CSC 309 taken)		
U.S. and California Government ( <a href="http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg">http://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg</a> )		3
or University Elective if US/CA Government met before transfer		
GE Area UD-C: Upper-Division Arts and/or Humanities		3
	<b>Units</b>	<b>16</b>
<b>Fourth Semester</b>		
Concentration Elective (15 Units Total) - Take Three <sup>1</sup>		9
GE Area UD-D: Upper-Division Social Sciences		3
University Elective		2
	<b>Units</b>	<b>14</b>
	<b>Total Units</b>	<b>60</b>

<sup>1</sup> **Concentration Electives (15 units)**  
 Five MATH courses numbered 300 or above except MATH 375, MATH 475, and MATH 565.