BACHELOR OF ARTS IN MATHEMATICS: CONCENTRATION IN MATHEMATICS FOR LIBERAL ARTS ROADMAP

120 Total Units Required Minimum Number of Units in the Major: 43

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

Course First Semester	Title	Units
ENG 114	Writing the First Year. Finding Your Voice (A2) ¹	3
MATH 226	Calculus I (Major Core, B4) ²	4
GE Area A ³		3
GE Area C		3
GE Area D		3
Second Semester	Units	16
MATH 227	Calculus II (Major Core)	4
MATH 325	Linear Algebra (Major Core)	4
GE Area A		3
GE Area C		3
GE Area E		3
	Units	17
Third Semester		
MATH 228	Calculus III (Major Core)	4
MATH 301GW	Exploration and Proof - GWAR (Major Core)	3
GE Area B: Physical Science (B1) and Labo	ratory Science (B3) ⁴	3-4
GE Area C		3
	Units	13-14
Fourth Semester		
MATH 335	Modern Algebra (Major Core)	3
Select One (Major Core):		3
MATH 209	Mathematical Computing	
CSC 101	Introduction to Computing	

	Total Units 12	20-122
	Units	13
Complementary Studies or SF State Studie - Take Four ⁵		10
Concentration Elective (15 Units Total) - Ta		10
Eighth Semester	6	
	Units	15
– Take Three ⁵		:
Complementary Studies or SF State Studie		(
GE Area UD-B: Upper-Division Physical and		
Seventh Semester Concentration Elective (15 Units Total) - Ta	ke One ⁶	
Course the Course of the	Units	1
Complementary Studies or SF State Studie 5	es or University Elective	3
U.S. and California Government (http://bul undergraduate-education/american-institu		
GE Area UD-C: Upper-Division Arts and/or I		3
Concentration Elective (15 Units Total) - Ta		6
Sixth Semester	-	10
GE Area UD-D: Upper-Division Social Scien	Units	3
GE Area F [±]		3
Complementary Studies or SF State Stu Elective (if MATH 209 or CSC 309 taken	•	
	Computer Programming ((if CSC 101 taken))	
CSC 215	Intermediate	
Select One:		4
Concentration Elective (15 Units Total) - Ta	ike One ⁶	3
MATH 370	Real Analysis I (Major Core)	3
Fifth Semester	Units	15-16
5		
Complementary Studies or SF State Studie	or University Flective	3
GE Area D	y Science (DS)	
GE Area B: Life Science (B2) and Laborator	Programming	3-4
CSC 309	Computer	

¹ ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

² To determine the best B4 course option, students should complete the online advising activity at mathadvising.sfsu.edu (https:// mathadvising.sfsu.edu/). Questions? Contact Gator Smart Start. (https://gatorsmartstart.sfsu.edu/)

³ To avoid taking additional units, it is recommended that you meet the SF State Studies (AERM, GP, ES, SJ) requirements within your GE or major.

⁴ Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

⁵ Complementary Studies

Students in the B.A. Math program will satisfy the Complementary Studies requirement with the completion of courses satisfying the General Education B1 Physical Science requirement, the General Education B2 Life Science requirement, the Upper-Division General Education UD-B (Physical and/or Life Sciences) requirement, and the computer programming course required for the major.

- ⁶ Concentration Electives (15 units) Five MATH courses numbered 300 or above except MATH 375, MATH 475, and MATH 565.
- ± Given catalog rights, fall 2023 transfer students do not need to complete an Area F course.