BACHELOR OF ARTS IN MATHEMATICS: CONCENTRATION IN MATHEMATICS FOR LIBERAL ARTS ROADMAP – QUANTITATIVE REASONING CATEGORY III/IV

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 your Degree Planner (https://registrar.sfsu.edu/degreeplanner/) and an advisor for further guidance.

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.

Course	Title	Units
First Semester		
MATH 197	Prelude to Calculus I (Prerequisite for MATH 226) ¹	3
GE Area 1: English Communication		3
GE Area 3: Arts and Humanities		3
GE Area 4: Social and Behavioral Sciences	2	3
Complementary Studies or SF State Studie	es or University Elective	3
	Units	15
Second Semester		
MATH 198	Prelude to Calculus II (GE 2, Prerequisite for MATH 226) ¹	3
GE Area 1A: English Composition ⁴		3
GE Area 1: English Communication		3
GE Area 3: Arts and Humanities		3
GE Area 5: Physical and Biological Science	es ⁵	3-4
		0 4
	Units	15-16
Third Semester	Units	
Third Semester MATH 226	Units Calculus I (Major Core, GE 2) ¹	
	Calculus I (Major Core, GE 2) ¹	15-16
MATH 226	Calculus I (Major Core, GE 2) ¹ 2	15-16 4
MATH 226 GE Area 4: Social and Behavioral Sciences	Calculus I (Major Core, GE 2) ¹ 2 ss ⁵ sfsu.edu/	15-16 4 3
MATH 226 GE Area 4: Social and Behavioral Sciences GE Area 5: Physical and Biological Science GE Area 6: Ethnic Studies (https://bulletin.	Calculus I (Major Core, GE 2) ¹ 2 sfsu.edu/ on/areasix/)	15-16 4 3 3-4

Fifth SemesterMATH 228Calculus III (Major Core)MATH 335Modern Algebra (Major Core)MATH 370Real Analysis I (Major Core)MATH 370Real Analysis I (Major Core)Select One: 6Intermediate Computer Programming ((if CSC 101 taken))CSC 215Intermediate Computer Programming ((if CSC 101 taken))Complementary Studies or SF State Studies or University Elective (if MATH 209 or CSC 309 taken)ImitsInitsSixth SemesterUnitsConcentration Elective (15 Units Total) - Take Two 7GE Area 3UD: Upper-Division Social and Behavioral SciencesU.S. and California Government (https://bulletin.sfsu.edu/ undergraduate-education/american-institutions/#usg)ImitsImitsSeventh SemesterConcentration Elective (15 Units Total) - Take Two 7GE Area 5UD or 2UD: Upper-Division Sciences or Upper-Division Mathematical ConceptsComplementary Studies or SF State Studies or University Elective - Take Two 3ImitsEighth Semester Concentration Elective (15 Units Total) 7Complementary Studies or SF State Studies or University Elective - Take Four 3	Fourth Semester		
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	Complementary Studies or SF State S		12
		Units	15
Total Units 120-12			20-122

Students should use their Pathway/Category (https:// gatorsmartstart.sfsu.edu/pathways/) to determine the appropriate GE 2 course option. For directions on how to view your Pathway/Category,

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visit how to find your pathway (https://gatorsmartstart.sfsu.edu/ howtofindyourpathways/). Questions? Contact Gator Smart Start. (https://gatorsmartstart.sfsu.edu/)

- ² First-time freshmen must take one lower-division Area 4 course that meets US History (USH).
- ³ Complementary Studies

Students in the B.A. Math program will satisfy the Complementary Studies requirement by taking 12 units of courses in the College of Science and Engineering outside of Math.

- ⁴ Students should use their Pathway/Category (https:// gatorsmartstart.sfsu.edu/pathways/) to determine the appropriate GE 1A course option. For directions on how to view your Pathway/Category, visit how to find your pathway (https:// gatorsmartstart.sfsu.edu/howtofindyourpathways/). Questions? Contact Gator Smart Start. (https://gatorsmartstart.sfsu.edu/)
- ⁵ Consider taking a class combined with a laboratory or a separate lab to fulfill 5C if not already satisfied.
- ⁶ CSC 101 and CSC 215 must both be taken to fulfill this requirement. CSC 101 and CSC 215 are only recommended if students are doublemajoring or minoring in Computer Science. All other students should take either MATH 209 or CSC 309.
- ⁷ Concentration Electives (15 units)
 Five MATH courses numbered 300 or above except MATH 375, MATH 475, and MATH 565.