Mathematics (B.S.) 2025-2026 Academic Catalog, Bachelor of Science – Mathematics

Academic Core for B.S. 47 Ho		ours Mathematics		_	38 Hours
CHRISTIAN STUDIES		6	B.S. MATHEMA	ATICS MAJOR REQUIRED COURSES	38
CSBS 1311	Engaging the Old Testament	3	MATH 2303	Statistics	
CSBS 1311 CSBS 1312	Engaging the New Testament	3	MATH 2320	Linear Algebra	3
C3D3 1312	Engaging the New Testament	5	MATH 2430	Calculus II	4
ENGLISH		9	MATH 3093	Junior Seminar	C
ENGL 1321	Rhetoric & Composition I	3	MATH 3314	Geometry	3
ENGL 1321	Rhetoric & Composition II	3	MATH 3315	History of Mathematics	3
ENGL	Literature	3	MATH 3320	Foundations of Higher Mathematics	3
	or higher is required in ENGL 1321 and ENGL 1322.	3	MATH 3325	Ordinary Differential Equations	3
71 grade of a C	or riigher is required in ENGE 1321 and ENGE 1322.		MATH 3430	Calculus III	4
EXERCISE & SPC	ORT SCIENCE - SELECT TWO DIFFERENT COURSES	2	MATH 3341	Numerical Analysis	3
EXAC	Activity Course	1	MATH 4293	Senior Seminar	
EXAC	Activity Course	1	MATH 4310	Analysis	3
LAAC	Activity Course	1	MATH 4320	Abstract Algebra	3
FINE ARTS - SE	LECT ONE	3	MATH 4385	Mathematical Probability and Statistics	3
ARTS 1350	Art Appreciation	3	The hours for MATE	H 4293 are already accounted for in the Academi	c Core
	• • • • • • • • • • • • • • • • • • • •		,	,	
COMM 2335	Film Appreciation	3			
FINA 2330	Exploring the Fine Arts	3	Electives		35 Hours
MUSI 1340	Music Appreciation	3			
THEA 2350	Theatre Appreciation	3	UPPER LEVEL ELECTIVES		(
			You need 6 addit	ional hours to reach your minimum 36 UL	required hrs.
	URES – SELECT ONE	3	=======================================		
ARTS 2354	World Art	3	ELECTIVES		29
EXSS 2353	Lifespan Nutrition	3	You need 29 add	litional hours to reach your minimum 120 i	required hrs.
GLBL 2310	Cultural Immersion	3			
HIST 1311	History of World Civilizations to 1500	3	_		
HIST 1312	History of World Civilizations since 1500	3	Total Hours		
HUMA 2355	Foundations of the Humanities	3	Academic Core for B.S.		47
MUSI 2358	World Music	3	B.S. Mathematics Major Required Courses		38
PHIL 2315	Introduction to Philosophy	3	Upper Level Elec	tives	6
		_	Electives		29
LAB SCIENCE		8	Total hours requ	ired for graduation	120
PHYS 2421	Physics I with Calculus	4			
	Laboratory Science Course	4	Additional Gradu	lation Requirements	
			Minimum Upper		36
PUBLIC SPEAKING		3	Minimum hours		30
COMM 1320	Public Speaking	3		Level hours taken at UMHB	24
			Minimum cumul	ative GPA	2.0
MATHEMATICS		4			
MATH 1430	Calculus I	4			
DECEADOUNACE	THORE OR INITERNICHIR	2			
	HODS OR INTERNSHIP	2			
MATH 4293	Senior Seminar	2			
SOCIAL SCIEN	CE - SELECT ONE	3			
	CE – SELECT ONE				
BECO 2310	Principles of Economics	3			
PSYC 1301	General Psychology	3			
EDUC 2399	Child and Adolescent Development	3			
SOCI 1311	Introduction to Sociology Introduction to Social Work	3			
SOCW 2311	Introduction to Social Work	3			
LIS HISTORY C	DR US GOVERNMENT – SELECT ONE	3			
HIST 2311	American History to 1877	3			
HIST 2312	American History since 1877	3			
POLS 2305	United States Government	3			
POLS 2305	Texas State and Local Government	3			
. 525 2500	. S.a.s State and Essai Government	J			
FRESHMAN SEN	MINAR	1			
UMHB 1101	Freshman Seminar	1			
		-			
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
	·				
F A	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				

Mathematics (B.S.) 2025-2026 Academic Catalog, Bachelor of Science – Mathematics – DEGREE SEQUENCE

FRESHMAN FALL		16 Hours	FRESHMAN SPRING		14 Hours
MATH 1430	Calculus I	4	MATH 2430	Calculus II	
JMHB 1101	Freshman Seminar	1	MATH 2303	Statistics	
CSBS 1311	Engaging the Old Testament	3	ENGL 1322	Rhetoric and Composition II	
ENGL 1321	Rhetoric & Composition I	3		Elective/Minor	
EXAC	Activity Course	1	UMHB 1002	Chapel	
	Elective/Minor	4	UMHB 1005	Fine Arts Experience	(
UMHB 1002	Chapel	0			
UMHB 1005	Fine Arts Experience	0			
SOPHOMORE FALL		16 Hours	SOPHOMORE SPRING		17 Hour
MATH 3325	Ordinary Differential Equations	3	MATH 3320	Foundations of Higher Mathematics	
MATH 2320	Linear Algebra	3	MATH 3430	Calculus III	
CSBS 1312	Engaging the New Testament	3	COMM 1320	Public Speaking	3
PHYS 2421	Physics I with Calculus	4		Lab Science	4
	Elective/Minor	3		Elective/Minor	
UMHB 1002	Chapel	0	UMHB 1002	Chapel	
UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	(
JUNIOR FALL		15 Hours	JUNIOR SPRING		15 Hour
MATH 4310	Analysis	3	MATH 4320	Abstract Algebra	
MATH 3314	Geometry	3	MATH 3093	Junior Seminar	(
ENGL	Literature	3		World Cultures	3
	Social Science	3		Fine Arts	3
	Elective/Minor	3		Elective/Minor	3
	· ·			Elective/Minor	_
UMHB 1005	Fine Arts Experience	0		Liective/ivillioi	3
UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	(
	Fine Arts Experience	0 15 Hours	SENIOR SPRIN	Fine Arts Experience	12 Hour
SENIOR FALL	Fine Arts Experience Mathematical Probability and Statistics		SENIOR SPRIN MATH 3315	Fine Arts Experience G History of Mathematics	12 Hour
SENIOR FALL MATH 4385	·	15 Hours	SENIOR SPRIN MATH 3315 MATH 4293	G History of Mathematics Senior Seminar	12 Hour
SENIOR FALL MATH 4385	Mathematical Probability and Statistics	15 Hours	SENIOR SPRIN MATH 3315	G History of Mathematics Senior Seminar Activity Course	12 Houi
SENIOR FALL MATH 4385	Mathematical Probability and Statistics Numerical Analysis	15 Hours 3 3	SENIOR SPRIN MATH 3315 MATH 4293	G History of Mathematics Senior Seminar Activity Course Elective/Minor	12 Hour
SENIOR FALL MATH 4385 MATH 3341	Mathematical Probability and Statistics Numerical Analysis US History or US Government	15 Hours 3 3 3	SENIOR SPRIN MATH 3315 MATH 4293	G History of Mathematics Senior Seminar Activity Course	12 Hour

Total Credit Hours: 120

Bachelor of Science in Mathematics

Notes:

- 1. This sequence is a SAMPLE. Actual sequences will vary.
- 2. Courses in red are courses in all majors in mathematics. Courses in green are required for all degree plans. Courses in purple may be replaced with a foreign language or study abroad. Courses in blue would have to be replaced with specific courses for 7-12 Certification.
- 3. Students not beginning in Calculus 1 will need to adjust their schedules so that they complete Calculus 2 and Linear Algebra by the end of their third semester.
- 4. If rotation permits, Math 3430 and Math 3325 should be taken during the second year.
- 5. It is imperative that Math 3320 be taken by fourth semester. The degree will require four semesters after this course.
- 6. Math 4310, 4320, and 4385 rotate. The first course taken in the sequence may vary. For secondary education students and students applying to graduate school, these courses should be completed by the end of the seventh semester.
- 7. Math 3314 and 3341 rotate.
- 8. Math 3315 is offered every other spring and may need to be taken earlier.
- 9. Math 4293 should be taken during the last semester of classes and should be taken after Math 4310, 4320, and 4385 if possible.
- 10. Elective courses may be replaced by a foreign language or study abroad experience.
- 11. All students must complete 120 total hours.
- 12. All students must complete at least 36 upper level hours.
- 13. All students must complete 4 semesters of Chapel (UMHB 1002).
- 14. All students must complete a Fine Arts Experience (UMHB 1005) for each semester in attendance.