Mathematics (B.S.) 7-12 Cert. 2025-2026 Academic Catalog, Bachelor of Science – Mathematics

Academic Core for B.S. 50 CHRISTIAN STUDIES		50 Hours	Mathematics B.S. MATHEMATICS MAJOR REQUIRED COURSES		65 Hours
		6			
CSBS 1311	Engaging the Old Testament	3	MATH 2303	Statistics	3
CSBS 1312	Engaging the New Testament	3	MATH 2320	Linear Algebra	3
			MATH 2430	Calculus II	4
ENGLISH		9	MATH 3093	Junior Seminar	0
ENGL 1321	Rhetoric & Composition I	3	MATH 3314	Geometry	3
ENGL 1322	Rhetoric & Composition II	3	MATH 3315	History of Mathematics	3
ENGL	Literature	3	MATH 3320	Foundations of Higher Mathematics	3
A grade of a "C'	or higher is required in ENGL 1321 and ENGL 13.	22.	MATH 3325	Ordinary Differential Equations	3
			MATH 3430	Calculus III	4
EXERCISE & SPO	ORT SCIENCE - SELECT TWO DIFFERENT COURSE	<u>S</u> 2	MATH 3341	Numerical Analysis	3
EXAC	Activity Course	1	MATH 4293	Senior Seminar	-
EXAC	Activity Course	1	MATH 4310	Analysis	3
2,0,0	, tourney obtained	-	MATH 4320	Abstract Algebra	3
FINE ARTS - SE	ELECT ONE	3	MATH 4385	Mathematical Probability and Statistics	3
ARTS 1350	Art Appreciation	3	The hours for MA	ATH 4293 are already accounted for in the Academ	nic Core
COMM 2335	Film Appreciation	3			
FINA 2330	• •			DAGOGY (SECONDARY LEVEL CERTIFIC	
	Exploring the Fine Arts	3	EDUC 3315	Students and Learning	3
MUSI 1340	Music Appreciation	3	EDUC 4324	Classroom Management	3
THEA 2350	Theatre Appreciation	3	EDUC 4328	Curriculum Design	3
			EDUC 4385	Educational Internship	3
	URES – SELECT ONE	3	READ 4326	Disciplinary Literacy	3
ARTS 2354	World Art	3	EDUC 4250	Certification Preparation Seminar	2
EXSS 2353	Lifespan Nutrition	3	EDUC 4501	Student Teaching I	5
GLBL 2310	Cultural Immersion	3	EDUC 4502	Student Teaching II	5
HIST 1311	History of World Civilizations to 1500	3		· ·	
HIST 1312	History of World Civilizations since 1500	3			
HUMA 2355	Foundations of the Humanities	3	Electives		5 Hours
MUSI 2358	World Music	3			0 11000
PHIL 2315	Introduction to Philosophy	3	ELECTIVES		5
	. ,		You need 5 add	ditional hours to reach your minimum 120 r	equired hrs.
LAB SCIENCE		8			
PHYS 2421	Physics I with Calculus	4			
	Laboratory Science Course	4	Total Hours		
	Ediboratory Science edurac		Academic Core	e for B.S.	47
PUBLIC SPEAKING		3		ics Major Required Courses	38
COMM 1320	Public Speaking	3		gogy (Secondary Level Certification)	27
COIVIIVI 1320	Tubiic Speaking	3	Electives	3-6, (,	5
MATHEMATICS	S	4		quired for graduation	120
MATH 1430	Calculus I	4			
			Additional Gra	duation Requirements	
RESEARCH METHODS OR INTERNSHIP		2	Minimum Upp	er Level hours	36
MATH 4293	Senior Seminar	2	Minimum hou	rs taken at UMHB	30
			Minimum Upp	er Level hours taken at UMHB	24
SOCIAL SCIENCE – SELECT ONE		3	Minimum cum		2.75
PSYC 1301	General Psychology	3	TVIII III Gairi		2.75
PSYC 2399	Child and Adolescent Development	3			
US HISTORY (OR 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 2306	Texas State and Local Government	3			
		_			
	TECHNOLOGY	<u>3</u>			
EDUC 2311	Classroom Technology	3			
FRESHMAN SEI	MINAR	1			
UMHB 1101	Freshman Seminar	<u>-</u>			
214111D TTOT	commun och milai	1			
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
Eino Arts Evnori	ience – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				
CIAII ID TOOD	Time ALG Experience				

Mathematics (B.S.) 7-12 Cert. 2025-2026 Academic Catalog, Bachelor of Science – Mathematics – DEGREE SEQUENCE

FRESHMAN FALL		16 Hours	16 Hours FRESHMAN SPRING		14 Hou
MATH 1430	Calculus I	4	MATH 2430	Calculus II	4
UMHB 1101	Freshman Seminar	1	MATH 2303	Statistics	3
CSBS 1311	Engaging the Old Testament	3	ENGL 1322	Rhetoric and Composition II	3
ENGL 1321	Rhetoric & Composition I	3		Elective/Minor	1
EXAC	Activity Course	1	EDUC 2311	Classroom Technology	3
	Elective/Minor	4	UMHB 1002	Chapel	C
UMHB 1002	Chapel	0	UMHB 1005	Fine Arts Experience	C
UMHB 1005	Fine Arts Experience	0			
SOPHOMORE FALL		16 House	SOPHOMORE	SPRING	17 Hours
MATH 3325	Ordinary Differential Equations	16 Hours 3	MATH 3320	Foundations of Higher Mathematics	3
MATH 2320	Linear Algebra	3	MATH 3430	Calculus III	4
CSBS 1312	Engaging the New Testament	3	COMM 1320	Public Speaking	3
PHYS 2421	Physics I with Calculus	4		Lab Science	4
EDUC 3315	Students and Learning	3	EDUC 4324	Classroom Management	3
UMHB 1002	Chapel	0	UMHB 1002	Chapel	C
UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	C
			JUNIOR SPRIN	ıe	15 Hours
JUNIOR FALL		16 Hours	MATH 4320	Abstract Algebra	3 Hours
MATH 4310 MATH 3314	Analysis	3 3	MATH 3093	Junior Seminar	0
ENGL	Geometry Literature	3	MATH 3315	History of Mathematics	3
PSYC 1301		3		World Cultures	3
EXAC	General Psychology	1		Fine Arts	3
EDUC 4328	Activity Course	3	EDUC 4326	Discipline Literacy	3
UMHB 1005	Curriculum Design	0	UMHB 1005	Fine Arts Experience	0
OMIND 1003	Fine Arts Experience	U			
SENIOR FALL		14 Hours	SENIOR SPRING		12 House
MATH 4385	Mathematical Probability and Statistics	3			12 Hours
MATH 3341	Numerical Analysis	3	EDUC 4250	Student Teaching Seminar	2
MATH 4293	Senior Seminar	2	EDUC 4501	Student Teaching I	5
	US History or US Government	3	EDUC 4502	Student Teaching II	5
EDUC 4385	Educational Internship	3	UMHB 1005	Fine Arts Experience	C
UMHB 1005	Fine Arts Experience	0			

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 for global emphasis. Courses in blue are required 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.