

Mathematics (B.A.) 7-12 Cert.

2025-2025 Academic Catalog, Bachelor of Arts – Mathematics, 7-12 Certification

Academic Core for B.A.

64 Hours

CHRISTIAN STUDIES **6**

CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3

ENGLISH **9**

ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	3

A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.

EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES **2**

EXAC	Activity Course	1
EXAC	Activity Course	1

FINE ARTS – SELECT ONE **3**

ARTS 1310	Drawing I	3
ARTS 1320	Design	3
ARTS 1350	Art Appreciation	3
ARTS 2360	Ceramics I	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Theatre Appreciation	3

FOREIGN LANGUAGE **14**

14 semester hours (4 semesters or the equivalent) in one language 14

LAB SCIENCE **4**

PHYS 2421	Physics I with Calculus	4
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PUBLIC SPEAKING **3**

COMM 1320	Public Speaking	3
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MATHEMATICS **4**

MATH 1430	Calculus	4
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LITERATURE OR HUMANITIES – SELECT ONE **3**

HUMA X3XX	Humanities	3
ENGL 23XX	Literature	3

SOCIAL SCIENCE – SELECT ONE **3**

PSYC 1301	General Psychology	3
EDUC 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

WORLD CULTURES or ANY PHILOSOPHY – SELECT ONE **3**

ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
HIST 2350	An Introduction to the Politics and Culture of Ancient Greece and Rome	3
HUMA 2355	Foundations of the Humanities	3
MUSI 2358	World Music	3
	any Philosophy course	3

WORLD CULTURES – SELECT ONE **3**

ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
HIST 2350	An Introduction to the Politics and Culture of Ancient Greece and Rome	3
HUMA 2355	Foundations of the Humanities	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3

CLASSROOM TECHNOLOGY **3**

EDUC 2311	Classroom Technology	3
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FRESHMAN SEMINAR **1**

UMHB 1101	Freshman Seminar	1
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CHAPEL – 1 to 4 credits

UMHB 1002	Chapel	
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Fine Arts Experience – 2 to 8 credits

UMHB 1005	Fine Arts Experience	
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Mathematics

67 Hours

B.A. MATHEMATICS MAJOR REQUIRED COURSES **40**

MATH 2303	Statistics	3
MATH 2320	Linear Algebra	3
MATH 2430	Calculus II	4
MATH 3093	Junior Seminar	0
MATH 3314	Geometry	3
MATH 3315	History of Mathematics	3
MATH 3320	Foundations of Higher Mathematics	3
MATH 3325	Ordinary Differential Equations	3
MATH 3430	Calculus III	4
MATH 3341	Numerical Analysis	3
MATH 4293	Senior Seminar	2
MATH 4310	Analysis	3
MATH 4320	Abstract Algebra	3
MATH 4385	Mathematical Probability and Statistics	3

MINOR IN PEDAGOGY (SECONDARY LEVEL CERTIFICATION) **27**

EDUC 3315	Students and Learning	3
EDUC 4324	Classroom Management	3
EDUC 4328	Curriculum Design	3
EDUC 4385	Educational Internship	3
READ 4326	Disciplinary Literacy	3
EDUC 4250	Certification Preparation Seminar	2
EDUC 4501	Student Teaching I	5
EDUC 4502	Student Teaching II	5

Total Hours

Academic Core for B.A.	64
B.A. Mathematics Major Required Courses	40
Minor in Pedagogy (Secondary Level Certification)	27
Total hours required for graduation	131

Additional Graduation Requirements

Minimum Upper Level hours	36
Minimum hours taken at UMHB	30
Minimum Upper Level hours taken at UMHB	24
Minimum cumulative GPA	2.75

Mathematics (B.A.) 7-12 Cert.

2025-2026 Academic Catalog, Bachelor of Arts – Mathematics, 7-12 Certification – DEGREE SEQUENCE

FRESHMAN FALL 16 Hours

MATH 1430	Calculus I	4
ENGL 1321	Rhetoric & Composition I	3
CSBS 1311	Engaging the Old Testament	3
EXAC	Activity Course	1
UMHB 1101	Freshman Seminar	1
	Foreign Language I	4
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

FRESHMAN SPRING 17 Hours

MATH 2430	Calculus II	4
MATH 2303	Statistics	3
ENGL 1322	Rhetoric and Composition II	3
	Foreign Language II	4
EDUC 2311	Classroom Technology	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE FALL 19 Hours

MATH 3325	Ordinary Differential Equations	3
MATH 2320	Linear Algebra	3
PHYS 2421	Physics I with Calculus	4
	Foreign Language III	3
EDUC 3315	Students and Learning	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0
Intraterm:		
CSBS 1312	Engaging the New Testament	3

SOPHOMORE SPRING 16 Hours

MATH 3320	Foundations of Higher Mathematics	3
MATH 3430	Calculus III	4
COMM 1320	Public Speaking	3
	Foreign Language IV	3
EDUC 4324	Classroom Management	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL 19 Hours

MATH 4310	Analysis	3
MATH 3314	Geometry	3
ENGL	Literature	3
PSYC 1301	General Psychology	3
EXAC	Activity Course	1
EDUC 4328	Curriculum Design	3
UMHB 1005	Fine Arts Experience	0
Intraterm:		
	Literature or Humanities	3

JUNIOR SPRING 15 Hours

MATH 4320	Abstract Algebra	3
MATH 3093	Junior Seminar	0
MATH 3315	History of Mathematics	3
	World Cultures	3
	Fine Arts	3
READ 4326	Disciplinary Literacy	3
UMHB 1005	Fine Arts Experience	0

SENIOR FALL 17 Hours

MATH 4385	Mathematical Probability and Statistics	3
MATH 3341	Numerical Analysis	3
MATH 4293	Senior Seminar	2
	US History or US Government	3
	World Cultures or Any Philosophy	3
EDUC 4385	Educational Leadership	3
UMHB 1005	Fine Arts Experience	0

SENIOR SPRING 12 Hours

EDUC 4250	Certification Preparation Seminar	2
EDUC 4501	Student Teaching I	5
EDUC 4502	Student Teaching II	5
UMHB 1005	Fine Arts Experience	0

Total Credit Hours: 131

Bachelor of Arts in Mathematics with 7-12 Teacher Certification 1,2,10

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** are required for BA students. 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. This degree plan consists of 128 hours and will require students to complete some coursework during winter or summer terms.
11. All students must complete 131 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.