

## Recommended Sequence

### B.S. in Mathematics

#### 8-12 Certification

#### Freshman Year

Fall Even		Spring Odd	
Route A- MATH1314 College Algebra <b>and</b> MATH 1316 Plane Trigonometry	6	Route A/B1 - MATH2413 Calculus I <b>or</b> Route B2 - MATH2414 Calculus II	4
Route B1 - MATH2412 Precalculus <b>or</b>	4	ENGL1302 Composition II	3
Route B2 - MATH 2413 Calculus I	4	HIST1302 U.S. History II	3
ENGL1301 Composition I	3	COSC1315 Introduction to Computer Science	3
HIST1301 U.S. History I	3	Core Elective (Natural Science plus Lab)	4
Core Elective (Natural Science plus Lab)	4		
Total Route A	16	Total	17
Total Route B	14		

Summer Odd	
Route A/B1 - MATH2414 Calculus II	4

#### Sophomore Year

Fall Odd		Spring Even	
MATH2415 Calculus III	4	MATH352 Math Foundations and Applications	3
MATH2305 Discrete Mathematics (non-CS majors)	3	GOVT2302 American Govt II: Fed & TX Pol Behavior	3
GOVT2301 American Govt I: Fed & TX Constitution	3	Core Elective (Fine Arts)	3
Core Elective (Humanities)	3	Core Elective (Social Science)	3
Core Elective (Other)	3	Core Elective (Other)	3
Total	16	Total	15

#### Junior Year

Fall Even		Spring Odd	
MATH334 Abstract Algebra	3	MATH321 College Geometry	3
MATH2318 Linear Algebra	3	MATH357 Probability and Statistics	3
ED321 Foundations of Education	3	ED311 Growth and Development EC-12	3
SPED 410 Characteristics of Diverse Learners	3	ITED350 Tech for Instruction, Learning, and Comm.	3
		RDG343 Reading Beyond the Primary Grades	3
Total	12	Total	15

#### Senior Year

Fall Odd		Spring Even	
MATH426 Problem Solving	3	MATH430 Mathematical Modeling	3
MATH437 Number Theory	3	MATH493 Capstone in Mathematics	3
ED331 Classroom and Behavior Management	3	ED493 Teaching Practicum (8-12 Student teaching)	6
ED435 Curriculum (Field-based)	3	SPED418 Research, Issues, and Trends in Ed.	3
Total	12	Total	15

Degree Total Route A	122
Degree Total Route B	120

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B.S. in Mathematics  
8-12 Certification**

**Freshman Year**

Fall Odd		Spring Even	
Route A - MATH1314 College Algebra <b>and</b> MATH 1316 Plane Trigonometry	6	Route A/B1 - MATH2413 Calculus I <b>or</b> Route B2 - MATH2414 Calculus II	4 4
Route B1 - MATH2412 Precalculus <b>or</b>	4	ENGL1302 Composition II	3
Route B2 - MATH 2413 Calculus I	4	HIST1302 U.S. History II	3
ENGL1301 Composition I	3	COSC1315 Introduction to Computer Science	3
HIST1301 U.S. History I	3	Core Elective (Natural Science plus Lab)	4
Core Elective (Natural Science plus Lab)	4		
Total Route A	16	Total	17
Total Route B	14		

Summer Even	
Route A/B1 - MATH2414 Calculus II	4

**Sophomore Year**

Fall Even		Spring Odd	
MATH2415 Calculus III	4	MATH321 College Geometry	3
MATH2305 Discrete Mathematics (non-CS majors)	3	MATH357 Probability and Statistics	3
GOVT2301 American Govt I: Fed & TX Constitution	3	GOVT2302 American Govt II: Fed & TX Pol Behavior	3
Core Elective (Humanities)	3	Core Elective (Fine Arts)	3
Core Elective (Other)	3	Core Elective (Humanities)	3
		Core Elective (Social Science)	3
Total	16	Total	18

**Junior Year**

Fall Odd		Spring Even	
MATH426 Problem Solving	3	MATH352 Math Foundations and Applications	3
MATH437 Number Theory	3	MATH430 Mathematical Modeling	3
MATH2318 Linear Algebra	3	ED311 Growth and Development EC-12	3
ED321 Foundations of Education	3	ITED350 Tech for Instruction, Learning, and Comm.	3
SPED 410 Characteristics of Diverse Learners	3	RDG343 Reading Beyond the Primary Grades	3
Total	15	Total	15

**Senior Year**

Fall Even		Spring Odd	
MATH334 Introduction to Abstract Algebra	3	MATH493 Capstone in Mathematics	3
ED331 Classroom and Behavior Management	3	ED493 Teaching Practicum (8-12 Student teaching)	6
ED435 Curriculum (Field-based)	3	SPED418 Research, Issues, and Trends in Ed.	3
Total	9	Total	12

Degree Total Route A	122
Degree Total Route B	120