



2025-2026

MATHEMATICS GRADES 8-12 MAJOR, B.S.

Mathematics & Computer Science Department; Shaw School of Sciences

The program content of the MATHEMATICS GRADES 8-12 MAJOR follows the recommendations of the Association of Mathematics Teacher Educators, the National Council of Teachers of Mathematics, and the Mathematical Association of America, and meets teacher certification requirements in most states. Teachers of mathematics in both public and private middle and high schools are very much in high demand.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.

[Education majors must choose COM130 in the Foundations Communication pool due to state certification requirements.]

MAJOR REQUIREMENTS (75)

__ 2	ED	200	Intro to Education	
__ 2	ED	220	Tech for Education	
__ 2	ED	230	Human Growth/Development	
__ 1	ED	301	Guided Inquiry Clinical	
__ 3	ED	320	Exceptional Learner	
__ 3	ED	385	Read/Writ Across Curriculum	
__ 1	ED	401	Open Inquiry Clinical	
__ 3	ED	405	Learning/Perform Assess	
__ 3	ED	410	Classroom Management	
__ 3	ED	420	Content Methods	
__ 1	ED	424	Content Methods Lab	
__ 3	ED	428	Interventions/Differentiation	
__ 12	ED	499	Student Teaching	
__ 3	MAT	130	Modeling Your World	
__ 4	MAT	181	Calculus I	__ Lab
__ 4	MAT	182	Calculus II	__ Lab
__ 3	MAT	241	Introduction to Proofs	
__ 3	MAT	271	Linear Algebra	
__ 4	MAT	361	Probability & Stats	
__ 4	MAT	362	Modern Geometry	
__ 4	MAT	371	Algebraic Structures	
__ 3	MAT	462	Topics in Sec Math	

Choose one:

__ 4	MAT	183	Calculus III	__ Lab
	MAT	463	Topics in Elem & MS Math	

PLUS FOUNDATIONS REQUIREMENTS (44)

(3 hours Math satisfied by required major courses; Foreign Language not required for B.S. MATE majors. Degree becomes B.A. with completion of Foreign Language.)

Plus electives needed for the 124 hour degree requirement (5)