2024-2025

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 <u>must</u> choose COM130 in the Foundations Communication pool due to state certification requirements.]

MAJOR REQUIREMENTS (75)

22133133131312	ED ED ED ED ED ED ED ED ED ED ED ED ED E	200 220 230 301 320 385 401 405 410 420 424 428 499	Intro to Education Tech for Education Human Growth/Development Guided Inquiry Clinical Exceptional Learner Read/Writ Across Curriculum Open Inquiry Clinical Learning/Perform Assess Classroom Management Content Methods Content Methods Lab Interventions/Differentiation Student Teaching
3 4 4 3 3 4 4 4	MAT MAT MAT MAT MAT MAT MAT MAT	130 181 182 241 271 361 362 371 462	Modeling Your World Calculus I Lab Calculus II Lab Logic & Sets Linear Algebra Probability & Stats Modern Geometry Algebraic Structures Topics in Sec Math
4	MAT MAT	183 463	Calculus III Lab 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)