



2026-2027

MATHEMATICS MAJOR, B.A.

Mathematics & Computer Science Department; Shaw School of Sciences

The Mathematics major prepares students for graduate study in mathematics, mathematical physics, or a related area that relies heavily upon theoretical mathematics. Eventual employment opportunities for persons with this background include teaching and research at the college or university level or being a member of a research team in government or industry. The Department has a rich history of graduates who have been successful in graduate school and subsequent academic and research careers.

Students must complete all Foundations requirements and major requirements, as well as any additional General Electives needed to reach the minimum of 124 total credits required for a Bachelor's degree.

MAJOR REQUIREMENTS (54)

__ 4	CSC	121	Computer Programming I	__ Lab
__ 4	CSC	122	Computer Programming II	__ Lab
__ 3	MAT	152	Discrete Math	
__ 1	MAT	170	Intro to Math Modeling	
__ 4	MAT	181	Calculus I	__ Lab
__ 4	MAT	182	Calculus II	__ Lab
__ 4	MAT	183	Calculus III	__ Lab
__ 3	MAT	241	Introduction to Proofs	
__ 3	MAT	252	Differential Equations	
__ 3	MAT	271	Linear Algebra	
__ 3	MAT	281	Probability	
__ 3	MAT	350	Mathematical Modeling	
__ 3	MAT	442	Numerical Analysis	
__ 3	MAT	471	Abstract Algebra	
__ 1	MAT	475	Senior Seminar	
__ 3	MAT	482	Complex Analysis	
__ 5	PHY	211	Gen Physics I	__ Lab __ Recitation

Plus FOUNDATIONS REQUIREMENTS (49)

(3 credit Math and 4 credits Science + Lab satisfied by required major courses.)

Plus GENERAL ELECTIVES needed to reach minimum 124 credits (21)